

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
three quarters inch = one foot
one half inch = one foot
one half inch = one foot
one quarter inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot

ELECTRICAL SYMBOLS				
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	SYMBOL	DESCRIPTION
FIRE ALARM SYSTEM			MISCELLANEOUS	
	CARBON MONOXIDE ALARM			CARD READER
	CCTV			CEILING MOUNTED JUNCTION BOX
	DUCT SMOKE DETECTOR, NOTE 6			DOOR CONTACT
	FIRE ALARM ANNUNCIATOR			DURESS BUTTON
	FIRE ALARM CONTROL PANEL			ELECTRICAL LOCK
	FIRE ALARM DOOR HOLDER			PROJECTOR
	FIRE ALARM HORN	VERIFY		PUSH BUTTON
	FIRE ALARM MINI HORN	80" UNO		REQUEST TO EXIT
	FIRE ALARM HORN STROBE	80" UNO		WALL MOUNTED JUNCTION BOX
	FIRE ALARM MANUAL PULL STATION	48" UNO	POWER	
	FIRE ALARM SMOKE DETECTOR			BUILDING WIRES IN CONDUIT, ALL PER CODE
	FIRE ALARM SMOKE DETECTOR, PROVIDE RELAY	80" UNO		COMBO CONTACTOR AND FUSED DISCONNECT SWITCH
	FIRE ALARM STROBE			COMBO TIME CLOCK AND FUSED DISCONNECT SWITCH
	FLOW SWITCH			CONTROL PANEL
	HEAT DETECTOR			DISCONNECT SWITCH, FUSED UNO.
	KEY PAD			FUSED COMBO SWITCH/MAGNETIC STARTER
	MAGNETIC DOOR HOLD			FUSED DISCONNECT
	POWER SUPPLY			HAND DRYER
	PUSH BUTTON			HOMERUN PER CODE
	SPEAKER			METER
	TAMPER SWITCH			MOTOR
LIGHTING				PANELBOARD
	CEILING FAN			PUSH BUTTON CONTROL STATION
	EXIT SIGN			DUPLEX RECEPTACLE, 120V 20A NOTE 4
	LUMINAIRE, CEILING MOUNTED			DUPLEX RECEPTACLE, 120V 20A NOTE 4
	LUMINAIRE, DOWN LIGHT			QUADPLEX RECEPTACLE
	LUMINAIRE			DUPLEX RECEPTACLE, 120V 20A NOTE 4 ON CRITICAL POWER
	LUMINAIRE			QUADPLEX RECEPTACLE ON CRITICAL POWER
	LUMINAIRE			SIMPLEX RECEPTACLE
	LUMINAIRE			SPECIAL OUTLET
	LUMINAIRE			WALL SWITCH/SNAP SWITCH, NOTE 5
	LUMINAIRE			NOTE 1
	LUMINAIRE, NIGHT LIGHT			NOTE 2
	LUMINAIRE, PENDANT			NOTE 3
	OCCUPANCY SENSOR COMPLETE SYSTEM			PILOT LIGHT
	PHOTO CELL			SPEED CONTROL SWITCH
	REMOTE HEAD			0-15 MINUTE TIMER SWITCH
	TRACK LIGHTING			SURFACE WIRE WAY (WIREMOLD)
	WALL WASH		TELECOM	
				TELEPHONE OUTLET
				TELEPHONE/DATA COMBINATION OUTLET
				WALL MOUNTED TELEPHONE OUTLET
				CATV OUTLET
				DATA OUTLET - (X) = # OF CAT 6 CABLES
				FLOOR OUTLET
ELECTRICAL SYMBOLS GENERAL NOTES: A. NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT. B. DEVICES AND PLATES SHALL BE IVORY.				
NUMBERED NOTES: 1. FRACTIONAL HORSEPOWER MANUAL CONTROLLER, TOGGLE RED OR GREEN PILOT, WITH OVERLOADS. 2. MOTOR RATED SWITCH, MOTOR STARTING SWITCH, RED OR GREEN PILOT, NO OVERLOADS. 3. MANUAL MOTOR CONTROLLER WITH AUXILIARY CONTACT, PUSH BUTTON OR TOGGLE, TOGGLE RED PILOT LIGHT, WITH OVERLOADS. 4. RECEPTACLES: WHERE INDICATED OR WHERE REQUIRED BY CODE, PROVIDE CERTAIN RECEPTACLES AS FOLLOWS: AC=ABOVE COUNTER (INCLUDES ABOVE COUNTER, ABOVE BACK-SPLASH, ABOVE DESK, ABOVE TABLE, ABOVE BENCH), COORDINATE. GFI=GROUND FAULT CIRCUIT INTERRUPTER. CA=GFI+AC. WP=PROVIDE WEATHER RESISTANT GFI RECEPTACLE, AND LOCKABLE WEATHERPROOF IN USE COVER. 5. SWITCHES: O.R. = OVER-RIDE. MOM. = MOMENTARY CONTACT SWITCH FOR CONTROL OF CONTACTOR. 6. PROVIDE POWER AS NECESSARY. PROVIDE RELAY AND TIE IN FOR FAN SHUTDOWN.				

DRAWING INDEX

E001	DRAWING INDEX AND SYMBOLS
ED100	DEMOLITION PLAN – BASEMENT
ED101	DEMOLITION PLAN – FIRST FLOOR
ED102	DEMOLITION PLAN – SECOND FLOOR
ES100	ELECTRICAL SITE PLAN
ES101	ENLARGED ELECTRICAL SITE PLAN
EP100	POWER PLAN – BASEMENT
EP101	POWER PLAN – FIRST FLOOR
EP102	POWER PLAN – SECOND FLOOR
EP103	POWER PLAN – ATTIC
EL100	LIGHTING PLAN – BASEMENT
EL101	LIGHTING PLAN – FIRST FLOOR
EL102	LIGHTING PLAN – SECOND FLOOR
EL103	LIGHTING PLAN – ATTIC
ET100	TELECOMMUNICATIONS PLAN – BASEMENT
ET101	TELECOMMUNICATIONS PLAN – FIRST FLOOR
ET102	TELECOMMUNICATIONS PLAN – SECOND FLOOR
E400	ENLARGED ELECTRICAL PLANS
E401	BUILDING 9 LINK PLANS
E500	ELECTRICAL DETAILS
E501	ELECTRICAL DETAILS
E502	ELECTRICAL DETAILS
E503	ELECTRICAL AND TELECOMMUNICATION DETAILS
E600	POWER RISER DIAGRAM – DEMOLITION
E601	POWER RISER DIAGRAM AND DETAILS
E602	SCHEDULES
E603	SCHEDULES

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AARON K. MUELLER, PE
DATE: 12-20-2013
MIN. REG. NO.

DRAWING TITLE

DRAWING INDEX AND SYMBOLS

APPROVED: PROJECT DIRECTOR

DATE:

PROJECT TITLE

RECONFIGURE/EXPAND BUILDINGS 28 & 9 RESIDENTIAL REHABILITATION TREATMENT PROGRAM

BUILDING No. 28

DESIGNED BY ARM

DRAWN CAB/DJL

DATE FILE

DATE 12-20-2013

PROJECT 3520

AS NOTED

PROJECT 656-12-339

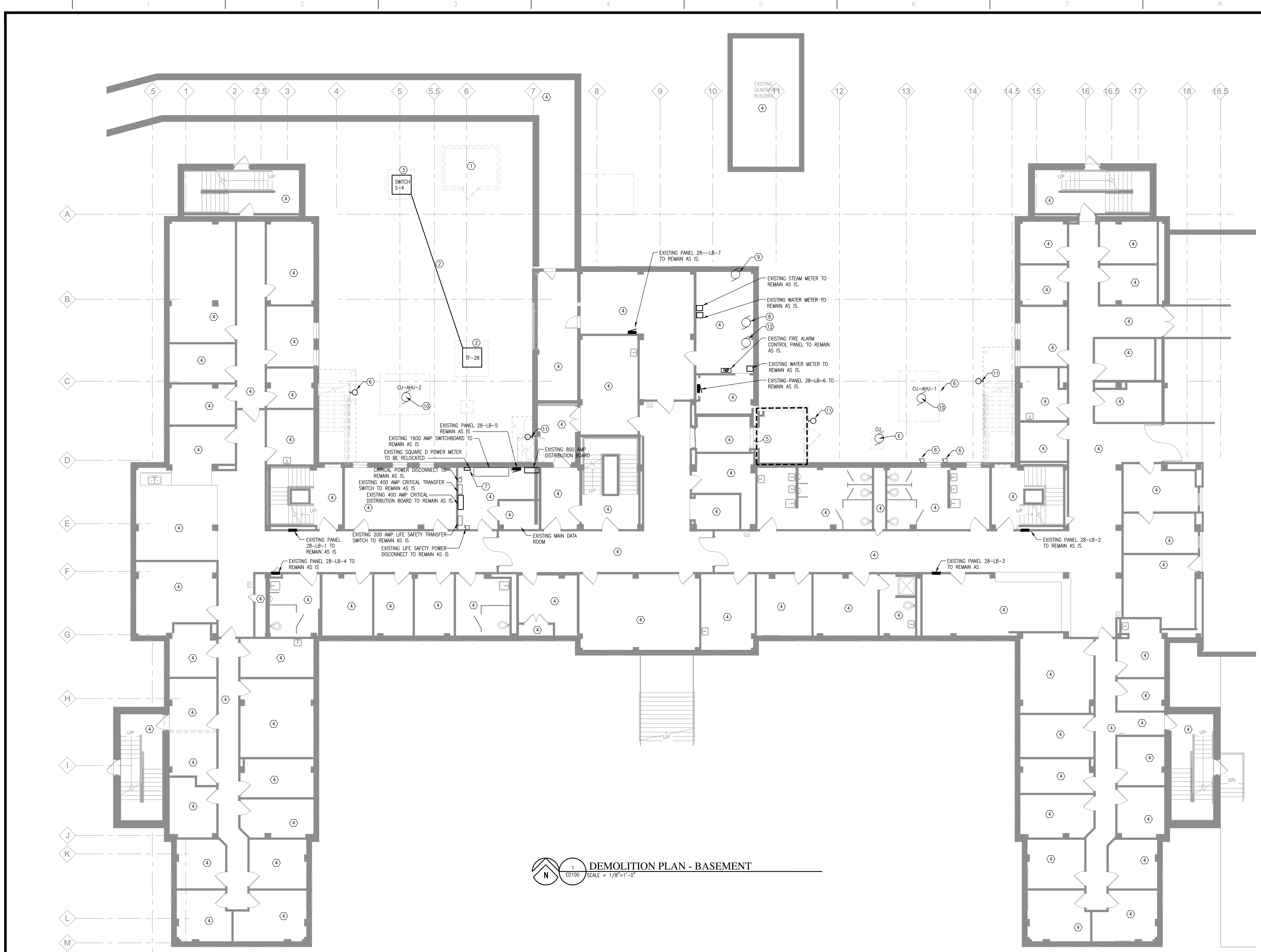
DRAWING NO. E001

St. Cloud VA

Health Care System

Brainerd | Montevideo | Alexandria

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot



- ### GENERAL NOTES
- A. REFER TO THE ARCHITECTURAL SPECIFICATIONS DIVISION 0 AND DIVISION 1 FOR SCHEDULING REQUIREMENTS. MAINTAIN SERVICES TO OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION. PROVIDE TEMPORARY SERVICES AS REQUIRED.
 - B. PROVIDE ALL CUTTING AND PATCHING (INCLUDING FIRE STOPPING) OF FLOORS, WALLS OR CEILINGS FOR DIVISION 26 WORK. MATCH ADJACENT SURFACES.
 - C. DEMOLISH ALL ELECTRICAL DEVICES SHOWN ON THIS PLAN, UNLESS SPECIFICALLY NOTED OTHERWISE. MAINTAIN SERVICE TO ALL DEVICES DOWNSTREAM.
 - D. EXISTING DEVICES NOT SHOWN ON THIS PLAN ARE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
 - E. DEMOLISH ALL ELECTRICAL DEVICES ON WALLS SHOWN TO BE DEMOLISHED (DASHED WALLS). MAINTAIN POWER TO DEVICES DOWNSTREAM OF DEMOLISHED DEVICES.
 - F. DEMOLISH ALL ELECTRICAL ITEMS SCHEDULED FOR DEMOLITION COMPLETE. DO NOT ABANDON CONDUIT, WIRE, HANGERS, ETC. IN PLACE. WHERE EXISTING BRANCH CIRCUITS ARE INTERCEPTED MAINTAIN POWER TO ALL DEVICES THAT REMAIN. ALL ELECTRICAL SHALL BE REMOVED FROM DEVICE TO SOURCE OR LAST ACTIVE DEVICE.
 - G. PROVIDE STAINLESS STEEL BLANK COVERPLATES OVER ALL BOXES AND OPENINGS LEFT UNUSED AS A RESULT OF THE DEMOLITION OF EXISTING ELECTRICAL DEVICES, UNLESS NOTED OTHERWISE. PROVIDE COVERPLATES SIZED TO COMPLETELY COVER ALL BOXES AND OPENINGS.
 - H. PROVIDE NEW SUPPORTS FOR ANY CABLES OR ELECTRICAL EQUIPMENT THAT ARE PRESENTLY SUPPORTED BY WALLS AND CEILING SLATED FOR DEMOLITION. THIS REQUIREMENT INCLUDES CONDUIT STUBS, CABLE TRAY, CONDUIT AND WIRING, ETC. PRESENTLY ROUTED THROUGH WALLS OR SUPPORTED FROM/ON CEILINGS SLATED FOR DEMOLITION. FIELD VERIFY EXACT REQUIREMENTS.
 - I. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS OR FLOORS COMPLETELY WITH INTUMESCENT TYPE FIRE BARRIERS.

- ### PLAN NOTES
- 1) DISCONNECT, REMOVE AND RELOCATE EXISTING ELECTRICAL AND LOW VOLTAGE SERVICES TO EXISTING SMOKE SHACK. REFER TO SHEET ES101 FOR ADDITIONAL INFORMATION.
 - 2) DISCONNECT AND REMOVE EXISTING DUCT BANK AND TRANSFORMER. REFER TO SHEET ES101 AND POWER RISER DIAGRAMS. TURN THE TRANSFORMER OVER TO OWNER FOR STOCK.
 - 3) EXISTING MEDIUM VOLTAGE SWITCH S4 TO REMAIN AS IS. REFER TO SHEET ES101 AND POWER RISER DIAGRAMS.
 - 4) NO WORK IN THIS AREA MAINTAIN EXISTING AT ALL TIMES.
 - 5) IN THIS AREA DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL AND LOW VOLTAGE DEVICES.
 - 6) EXISTING HVAC EQUIPMENT TO BE REMOVED. DISCONNECT AND REMOVE ALL ASSOCIATED EXISTING ELECTRICAL EQUIPMENT.
 - 7) EXISTING POWER METER IS NETWORKED TO THE EXISTING STEAM METER. REMOVE ALL CABLES AND CONDUIT BACK TO STEAM METER.
 - 8) DISCONNECT, REMOVE AND RELOCATE EXISTING EXHAUST FAN EXTEND ALL ASSOCIATED ELECTRICAL TO NEW LOCATION. REFER TO KEYNOTE 9.
 - 9) NEW LOCATION LOCATION OF RELOCATED EXHAUST FAN. COORDINATE WITH MECHANICAL CONTRACTOR AND MAKE ALL REQUIRED CONNECTION.
 - 10) EXISTING HVAC EQUIPMENT TO BE DISCONNECTED, REMOVED AND RELOCATED. EXTEND ALL CONDUIT FROM SOURCE LOCATION TO NEW LOCATION SHOWN ON SHEET EP100 PROVIDE NEW CONDUCTORS FROM SOURCE TO NEW LOCATION.
 - 11) DISCONNECT AND REMOVE EXISTING DEVICE SHOWN.
 - 12) DISCONNECT AND REMOVE EXISTING INTAKE AIR FAN.

 **DEMOLITION PLAN - BASEMENT**
SCALE = 1/8"=1'-0"

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AARON M. MUELLER, PE
DATE: 12-20-2013
MIN. REG. NO. _____

DRAWING TITLE
DEMOLITION PLAN - BASEMENT

APPROVED: PROJECT DIRECTOR _____ DATE: _____

PROJECT TITLE
RECONFIGURE/EXPAND BUILDINGS 28 & 9 RESIDENTIAL REHABILITATION TREATMENT PROGRAM

BIDDING No. 28
DESIGNED BY ARM
DRAWN CAB/DLJ
FILE NO. _____
DATE: 12-20-2013
MIN. REG. NO. _____

DATE 12-20-2013
PROJECT 656-12-339
FILE NO. _____
DRAWING NO. ED100



St. Cloud VA Health Care System
Brainerd | Montevideo | Alexandria

GENERAL NOTES

- A. REFER TO THE ARCHITECTURAL SPECIFICATIONS DIVISION 0 AND DIVISION 1 FOR SCHEDULING REQUIREMENTS. MAINTAIN SERVICES TO OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION. PROVIDE TEMPORARY SERVICES AS REQUIRED.
- B. PROVIDE ALL CUTTING AND PATCHING (INCLUDING FIRE STOPPING) OF FLOORS, WALLS OR CEILINGS FOR DIVISION 26 WORK. MATCH ADJACENT SURFACES.
- C. DEMOLISH ALL ELECTRICAL DEVICES SHOWN ON THIS PLAN, UNLESS SPECIFICALLY NOTED OTHERWISE. MAINTAIN SERVICE TO ALL DEVICES DOWNSTREAM.
- D. EXISTING DEVICES NOT SHOWN ON THIS PLAN ARE TO REMAIN. MAINTAIN CIRCUIT CONTINUITY.
- E. DEMOLISH ALL ELECTRICAL DEVICES ON WALLS SHOWN TO BE DEMOLISHED (DASHED WALLS). MAINTAIN POWER TO DEVICES DOWNSTREAM OF DEMOLISHED DEVICES.
- F. DEMOLISH ALL ELECTRICAL ITEMS SCHEDULED FOR DEMOLITION COMPLETE. DO NOT ABANDON CONDUIT, WIRE, HANGERS, ETC. IN PLACE, WHERE EXISTING BRANCH CIRCUITS ARE INTERCEPTED MAINTAIN POWER TO ALL DEVICES THAT REMAIN.
- G. PROVIDE STAINLESS STEEL BLANK COVERPLATES OVER ALL BOXES AND OPENINGS LEFT UNUSED AS A RESULT OF THE DEMOLITION OF EXISTING ELECTRICAL DEVICES, UNLESS NOTED OTHERWISE. PROVIDE COVERPLATES SIZED TO COMPLETELY COVER ALL BOXES AND OPENINGS.
- H. PROVIDE NEW SUPPORTS FOR ANY CABLES OR ELECTRICAL EQUIPMENT THAT ARE PRESENTLY SUPPORTED BY WALLS AND CEILING SLATED FOR DEMOLITION. THIS REQUIREMENT INCLUDES CONDUIT STUBS, CABLE TRAY, CONDUIT AND WIRING, ETC. PRESENTLY ROUTED THROUGH WALLS OR SUPPORTED FROM/ON CEILINGS SLATED FOR DEMOLITION. FIELD VERIFY EXACT REQUIREMENTS.
- I. SEAL ALL HOLES LEFT IN SMOKE OR FIRE RATED WALLS OR FLOORS COMPLETELY WITH INTUMESCENT TYPE FIRE BARRIERS.

PLAN NOTES

- ① IN THIS AREA, ALL EXISTING ELECTRICAL AND LOW VOLTAGE SYSTEMS SHALL REMAIN OPERATIONAL AT ALL TIMES. ALL CEILING MOUNTED AND ABOVE CEILING DEVICES SHALL BE TEMPORARILY SUPPORTED DURING THE REMOVAL OF EXISTING CEILING FOR THE INSTALLATION OF MECHANICAL AND PLUMBING EQUIPMENT. DURING AND AFTER MECHANICAL WORK, CONTRACTOR SHALL TEST AND VERIFY ALL SYSTEMS TO INSURE ALL SYSTEMS ARE REMAIN OPERATIONAL. CONTRACTOR IS RESPONSIBLE FOR FIXING OR REPLACING DAMAGED EQUIPMENT. DEVICES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY EXACT QUANTITY OF EQUIPMENT AND SITE CONDITIONS PRIOR TO BID.
- ② DEVICE SHALL BE DISCONNECTED AND REMOVE ALL ELECTRICAL FROM DEVICE TO SOURCE, UNLESS NOTED OTHERWISE.
- ③ IN THIS AREA, ALL EXISTING ELECTRICAL AND LOW VOLTAGE SYSTEMS SHALL REMAIN OPERATIONAL AT ALL TIMES EXCEPT FOR LIGHTING AND CEILING DEVICES THEY SHALL BE DISCONNECT AND REMOVED. THE LIGHT FIXTURE SHALL BE REPLACE ONE OF ONE WITH A LITHONIA #2PM3-G-332-18LD-MVOLT-GE8TOPS-USPOM OR EQUAL. THE POWER POLE, SPEAKERS, ETC SHALL BE REINSTALLED IN NEW LAY-IN GRID PROVIDE ALL REQUIRED MOUNTING HARDWARE AS REQUIRED. ALL CEILING MOUNTED AND ABOVE CEILING DEVICES SHALL BE TEMPORARILY SUPPORTED DURING THE REMOVAL OF EXISTING CEILING FOR THE INSTALLATION OF MECHANICAL AND PLUMBING EQUIPMENT. DURING AND AFTER MECHANICAL WORK, CONTRACTOR SHALL TEST AND VERIFY ALL SYSTEMS TO INSURE ALL SYSTEMS ARE REMAIN OPERATIONAL. CONTRACTOR IS RESPONSIBLE FOR FIXING OR REPLACING DAMAGED EQUIPMENT. DEVICES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY EXACT QUANTITY OF EQUIPMENT AND SITE CONDITIONS PRIOR TO BID.
- ④ IN THIS AREA, ALL EXISTING ELECTRICAL AND LOW VOLTAGE SYSTEMS SHALL REMAIN OPERATIONAL AT ALL TIMES EXCEPT FOR LIGHTING AND CEILING DEVICES THEY SHALL BE DISCONNECT AND REMOVED. THE LIGHT FIXTURE SHALL BE REPLACE ONE OF ONE WITH A LITHONIA #2PM3-G-232-18LD-MVOLT-GE8TOPS-USPOM OR EQUAL. THE POWER POLE, SPEAKERS, ETC SHALL BE REINSTALLED IN NEW LAY-IN GRID PROVIDE ALL REQUIRED MOUNTING HARDWARE AS REQUIRED. ALL CEILING MOUNTED AND ABOVE CEILING DEVICES SHALL BE TEMPORARILY SUPPORTED DURING THE REMOVAL OF EXISTING CEILING FOR THE INSTALLATION OF MECHANICAL AND PLUMBING EQUIPMENT. DURING AND AFTER MECHANICAL WORK, CONTRACTOR SHALL TEST AND VERIFY ALL SYSTEMS TO INSURE ALL SYSTEMS ARE REMAIN OPERATIONAL. CONTRACTOR IS RESPONSIBLE FOR FIXING OR REPLACING DAMAGED EQUIPMENT. DEVICES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY EXACT QUANTITY OF EQUIPMENT AND SITE CONDITIONS PRIOR TO BID.
- ⑤ DISCONNECT, REMOVE AND EXTEND ALL ELECTRICAL FROM EXISTING WALL TO NEW FURRED WALL. SITE VERIFY EXACT SCOPE OF WORK PRIOR TO BID.

DEMOLITION PLAN - FIRST FLOOR
SCALE = 1/8"=1'-0"

100% CD SET

No.	REVISION	DATE



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DATE: 12-20-2013
REG. NO.

DRAWING TITLE
DEMOLITION PLAN - FIRST FLOOR

APPROVED: PROJECT DIRECTOR
DATE:

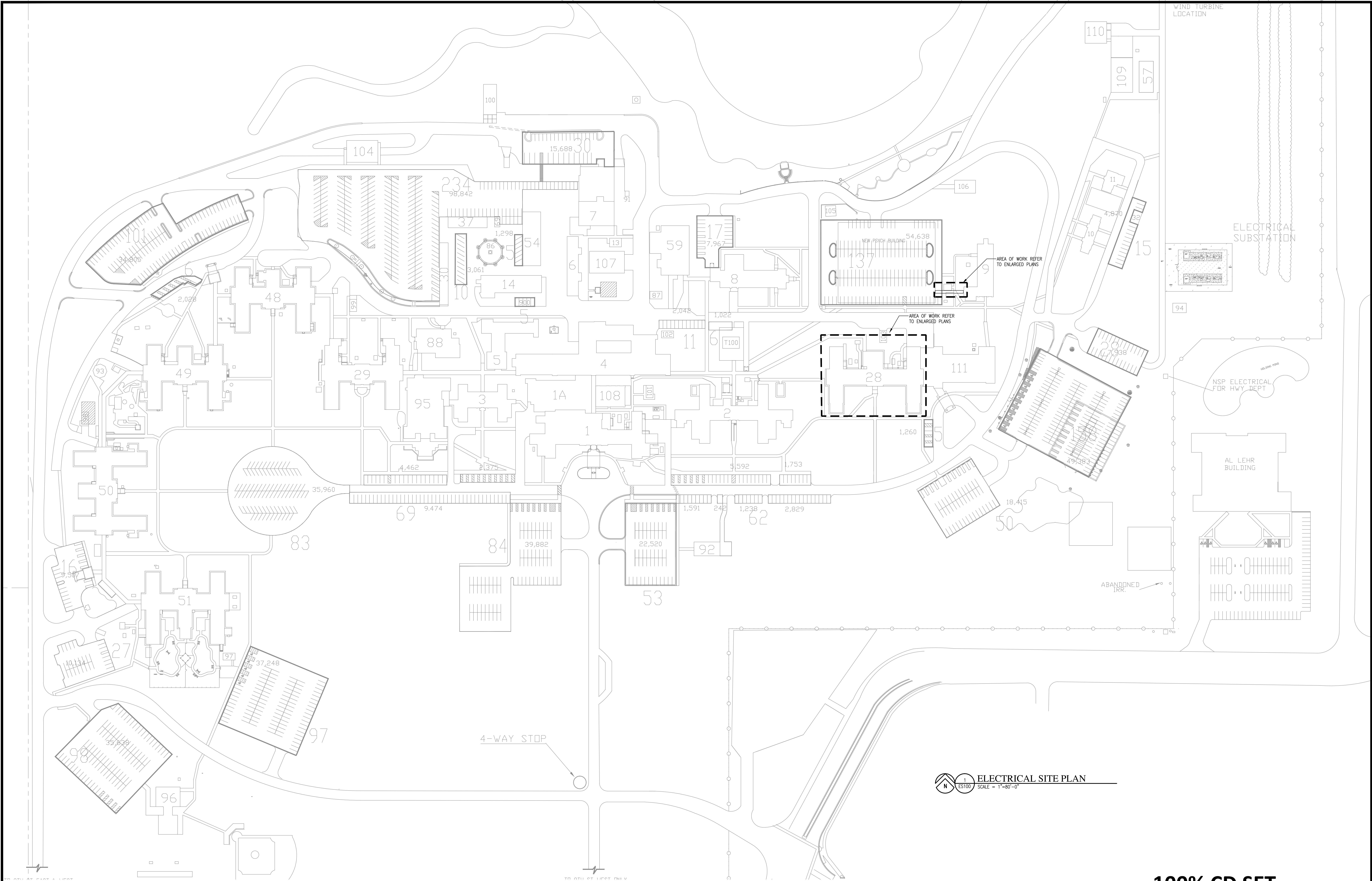
PROJECT TITLE
RECONFIGURE/EXPAND BUILDINGS 28 & 9
RESIDENTIAL REHABILITATION TREATMENT PROGRAM


BIDDING No. 28
DESIGNED BY ARM
DRAWN CAB/DJL
DATE FILE
ST. CLOUD VA MEDICAL CENTER
ST. CLOUD, MN 56303

DATE 12-20-2013
PROJECT 656-12-339
DRAWING NO. ED101



one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot



 **ELECTRICAL SITE PLAN**
SCALE = 1"=80'-0"

100% CD SET

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DATE: 12-20-2013

DRAWING TITLE
ELECTRICAL SITE PLAN

APPROVED: PROJECT DIRECTOR
DATE: _____

PROJECT TITLE
**RECONFIGURE/EXPAND
BUILDINGS 28 & 9
RESIDENTIAL REHABILITATION
TREATMENT PROGRAM**

BUILDING NO.
28

DESIGNED BY
ARM

DRAWN
CAB/DLJ

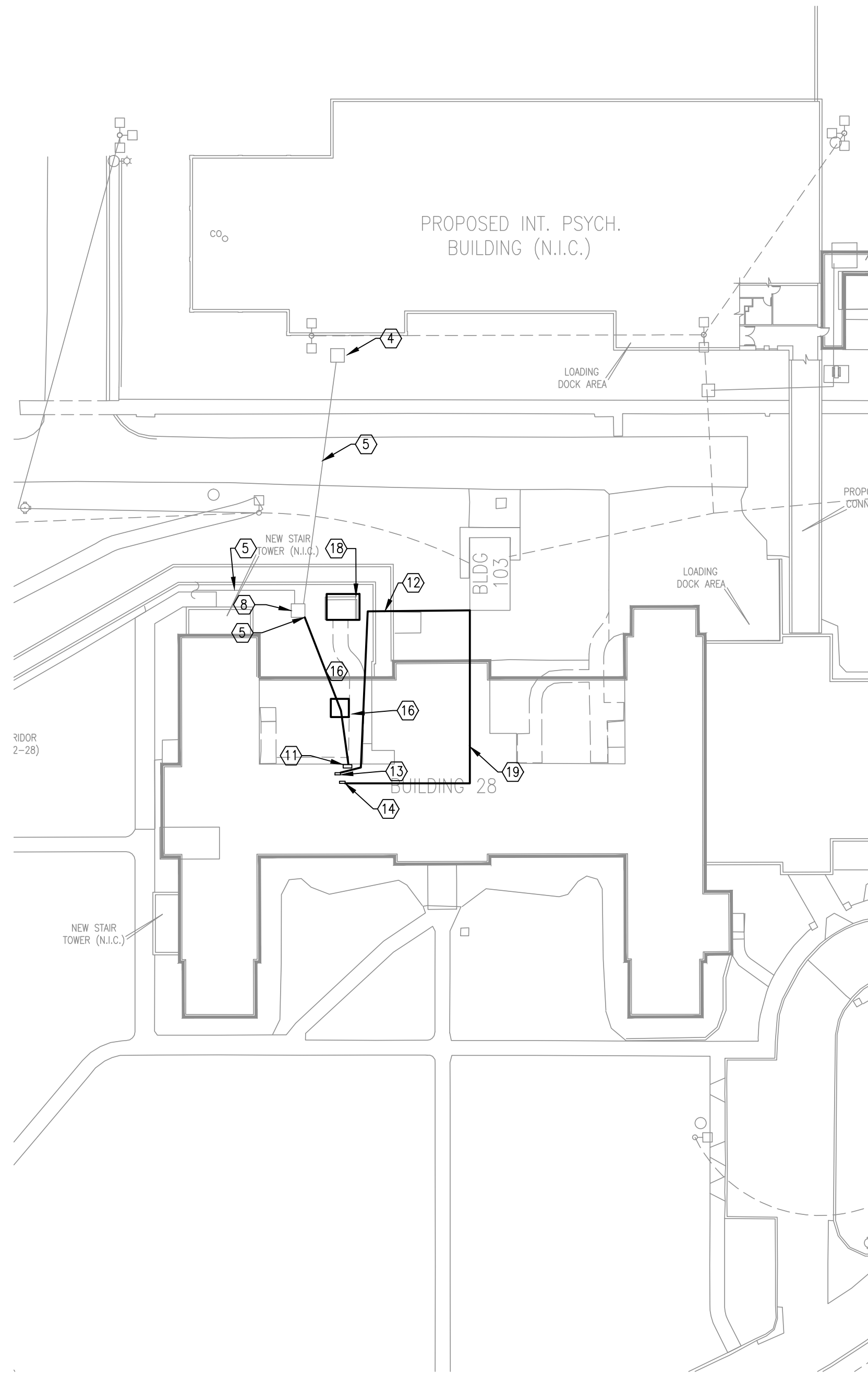
DATE FILE
ES100

DATE
12-20-2013

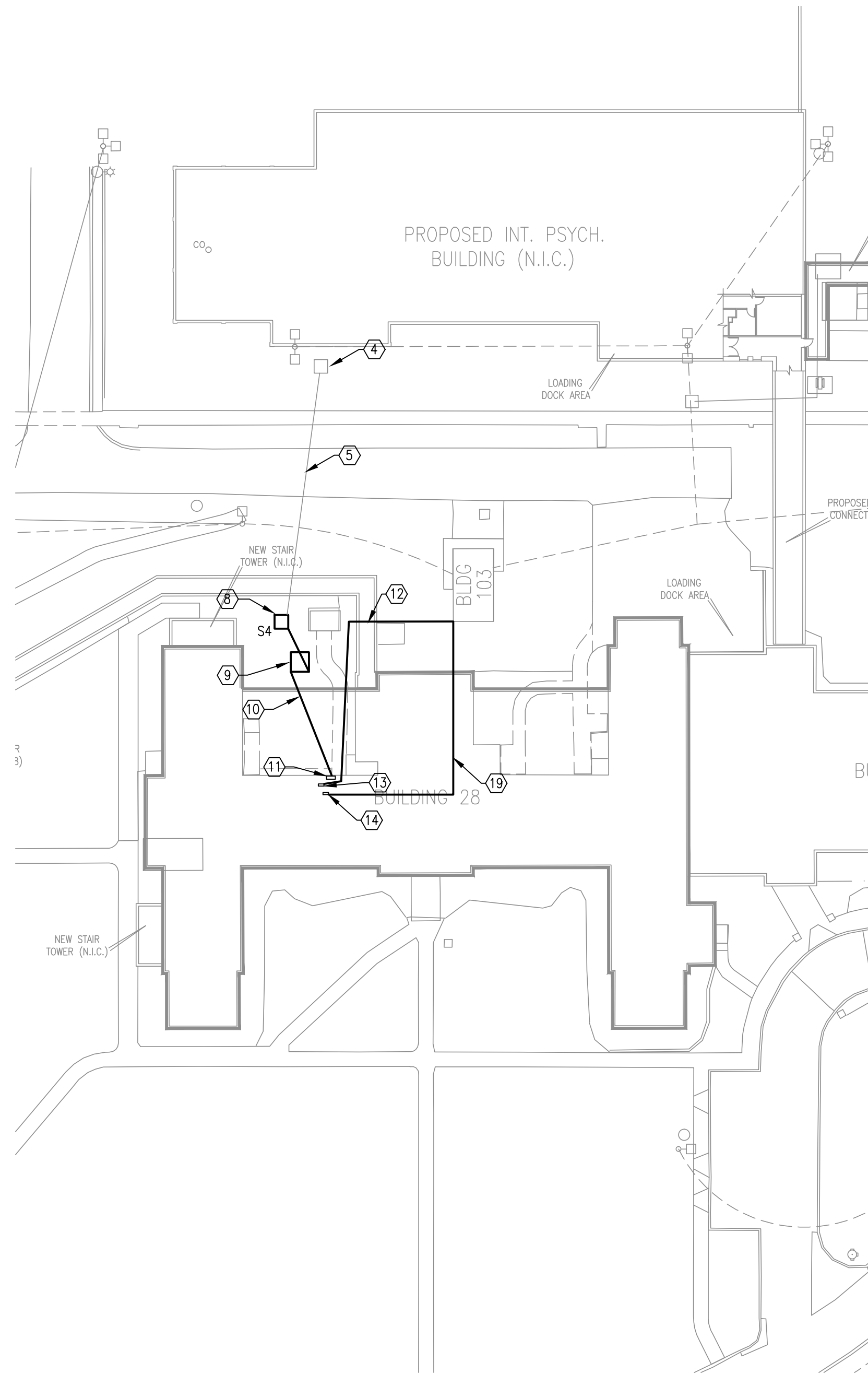
PROJECT STATUS
AS NOTED

PROJECT NO.
656-12-339

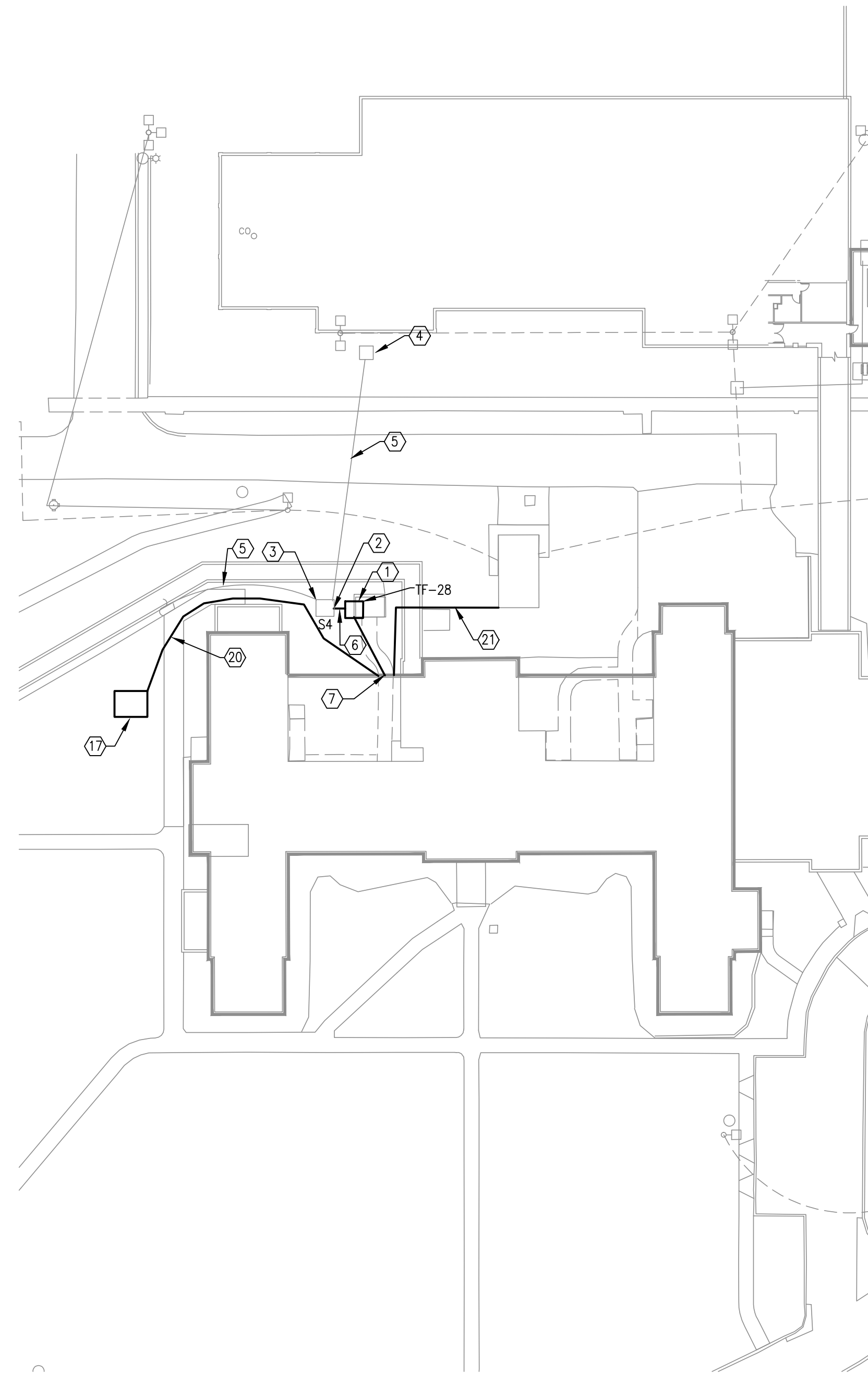




1 ENLARGED DEMOLITION ELECTRICAL SITE PLAN
SCALE = 1"=40'-0"



2 ENLARGED TEMPORARY ELECTRICAL SITE PLAN
SCALE = 1"=40'-0"



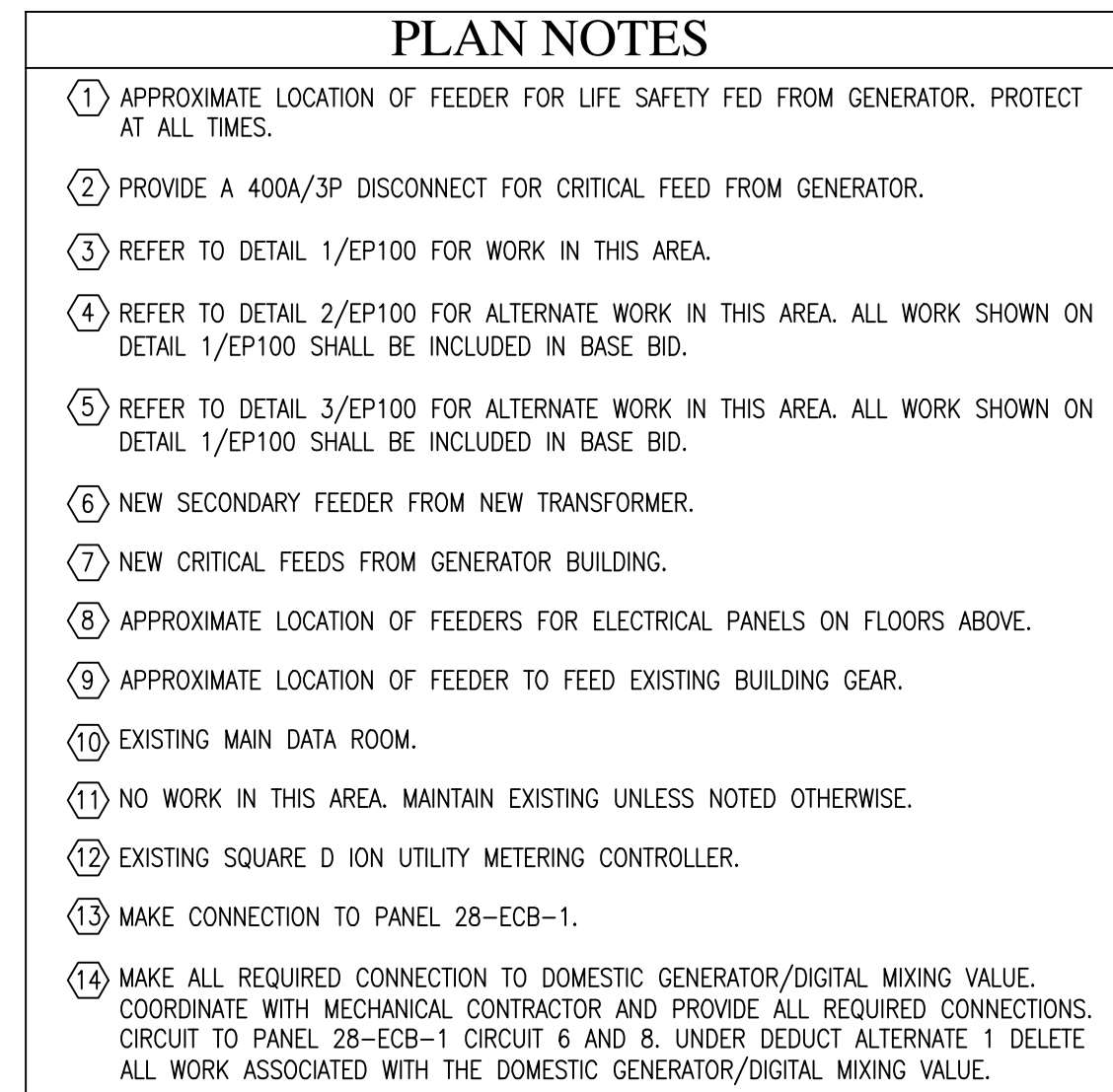
3 ENLARGED ELECTRICAL SITE PLAN
SCALE = 1"=40'-0"



PLAN NOTES

- 1 NEW MEDIUM VOLTAGE TRANSFORMER TF-28.
- 2 PROVIDE NEW DUCT BANK AT EXISTING MEDIUM VOLTAGE SWITCH TO FEED NEW MEDIUM VOLTAGE TRANSFORMER TF-28. REFER TO NOTE 6 BELOW FOR ADDITIONAL INFORMATION.
- 3 EXISTING MEDIUM VOLTAGE SWITCH S4 TO REMAIN AS IS. MODIFY FEEDS AS SHOWN ON THIS SHEET AND POWER RISER DIAGRAM.
- 4 APPROXIMATE LOCATION OF EXISTING MANHOLE. MANHOLE TO REMAIN.
- 5 APPROXIMATE LOCATION OF EXISTING CONCRETE DUCT BANK. DUCT BANK AND CABLING TO REMAIN.
- 6 NEW DUCT BANK TO FEED NEW MEDIUM VOLTAGE TRANSFORMER TF-28.
- 7 PROVIDE SECONDARY FEEDER FROM NEW TRANSFORMER TO NEW SWITCHBOARD (28-MSE-1) LOCATED IN THE BASEMENT LEVEL OF BUILDING.
- 8 EXISTING MEDIUM VOLTAGE SWITCH S4 TO REMAIN.
- 9 PROVIDE TEMPORARY MEDIUM VOLTAGE TRANSFORMER TO FEED BUILDING 28 1600 AMP SWITCHBOARD. INTERCEPT EXISTING DUCT BANK AND MAKE ALL REQUIRED CONNECTIONS. (ELECTRICAL CONTRACTOR HAS OPTIONS FOR TEMPORARY POWER AS FOLLOWS: TEMPORARY TRANSFORMER, GENERATOR, NEW TRANSFORMER, RELOCATED EXISTING TRANSFORMER).
- 10 PROVIDE TEMPORARY 1600 AMP SECONDARY FEEDER FROM TEMPORARY TRANSFORMER TO EXISTING BUILDING 28 SWITCHBOARD.
- 11 APPROXIMATE LOCATION OF EXISTING BUILDING 28 SWITCHBOARD.
- 12 INTERCEPT EXISTING 400 AMP (CRITICAL) FEED FROM EXISTING GENERATOR TO EXISTING DISCONNECT LOCATED IN BUILDING 28 ELECTRICAL ROOM AND PROVIDE TEMPORARY CONNECTION AS REQUIRED FOR THE ADDITION TO THE BUILDING.
- 13 BUILDING 28 400 AMP DISCONNECT FOR CRITICAL POWER.
- 14 BUILDING 28 200 AMP DISCONNECT FOR LIFE SAFETY DISCONNECT.
- 15 ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL TEMPORARY ELECTRICAL DEVICE, CABLING , AND ASSOCIATED EQUIPMENT) IN ITS ENTIRETY AFTER NEW SERVICE IS INSTALLED.
- 16 THE ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING MEDIUM VOLTAGE TRANSFORMER, DUCT BANK, MEDIUM VOLTAGE CABLE FROM MEDIUM VOLTAGE SWITCH TO TRANSFORMER, AND SECONDARY FEEDER TO BUILDING 28 SWITCHBOARD. REFER TO ELECTRICAL POWER RISER DIAGRAM NEW AND DEMOLITION. THE MEDIUM VOLTAGE TRANSFORMER SHALL BE TURNED OVER TO OWNER.
- 17 RELOCATED SMOKE SHACK. PROVIDE ALL ASSOCIATED ELECTRICAL AND LOW VOLTAGE AS SHOWN (REFER TO DETAIL 3/ES101) TO THIS LOCATION. PROVIDE A 100A-3P FEEDER TO SMOKE SHACK FROM NEW SWITCHBOARD. 1 1/4"-.4#3, 1#8 GND. MAKE ALL REQUIRED CONNECTIONS TO SHACK PANEL.
- 18 DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL AND LOW VOLTAGE FOR SMOKE SHACK. REFER TO PLAN NOTE 17 ABOVE AND DETAIL 3/ES101 FOR ADDITIONAL INFORMATION.
- 19 PROTECT EXISTING 200AMP LIFE SAFETY FEED FROM THE GENERATOR BUILDING AT ALL TIMES.
- 20 APPROXIMATE LOCATION OF NEW FEEDER AND LOW VOLTAGE SERVICE TO RELOCATED SMOKE SHACK.
- 21 NEW FEEDER FOR (CRITICAL) FEED FROM EXISTING GENERATOR TO NEW DISCONNECT LOCATED IN BUILDING 28 ELECTRICAL ROOM. REFER TO POWER RISER DIAGRAMS FOR ADDITIONAL INFORMATION.

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Design Tree ENGINEERING AND LAND SURVEYING Alexandria Office: 120 17th Avenue W, Alexandria, MN 56308 (508) 762-1290 St. Cloud Office: 3339 West St. Germain, Suite 250 St. Cloud, MN 56301 (508) 217-5557		JLC architects Alexandria 225 Broadway Street Alexandria, MN 56308 phone 320.759.9030 facsimile 320.759.9062 www.jlarchitects.com copyright © 2013 DTE 02212001	STAMP/SEAL: I HEREBY CERTIFY THAT THIS SEAL REPRESENTS AN ELECTRICIAN HAVING BEEN ISSUED BY THE STATE OF MINNESOTA AND THAT THIS SEAL IS NOT BEING USED FOR ANY OTHER PURPOSE. AARON E. MUELLER, PE MIN 48184 DATE: 12-20-2013 REG. NO.	DRAWING TITLE: ENLARGED ELETRICAL SITE PLAN APPROVED: PROJECT DIRECTOR DATE:	PROJECT TITLE: RECONFIGURE/EXPAND BUILDINGS 28 & 9 RESIDENTIAL REHABILITATION TREATMENT PROGRAM BUILDING No: 28 ARM CAB/D/LJ LOCATION: ST. CLOUD VA MEDICAL CENTER ST. CLOUD, MN 56303	DATE: 12-20-2013 REVISION: AS NOTED PREPARED BY: 656-12-339 DATE: 12-20-2013 DRAWING NO: ES101	St. Cloud VA Health Care System Brainerd Montevideo Alexandria
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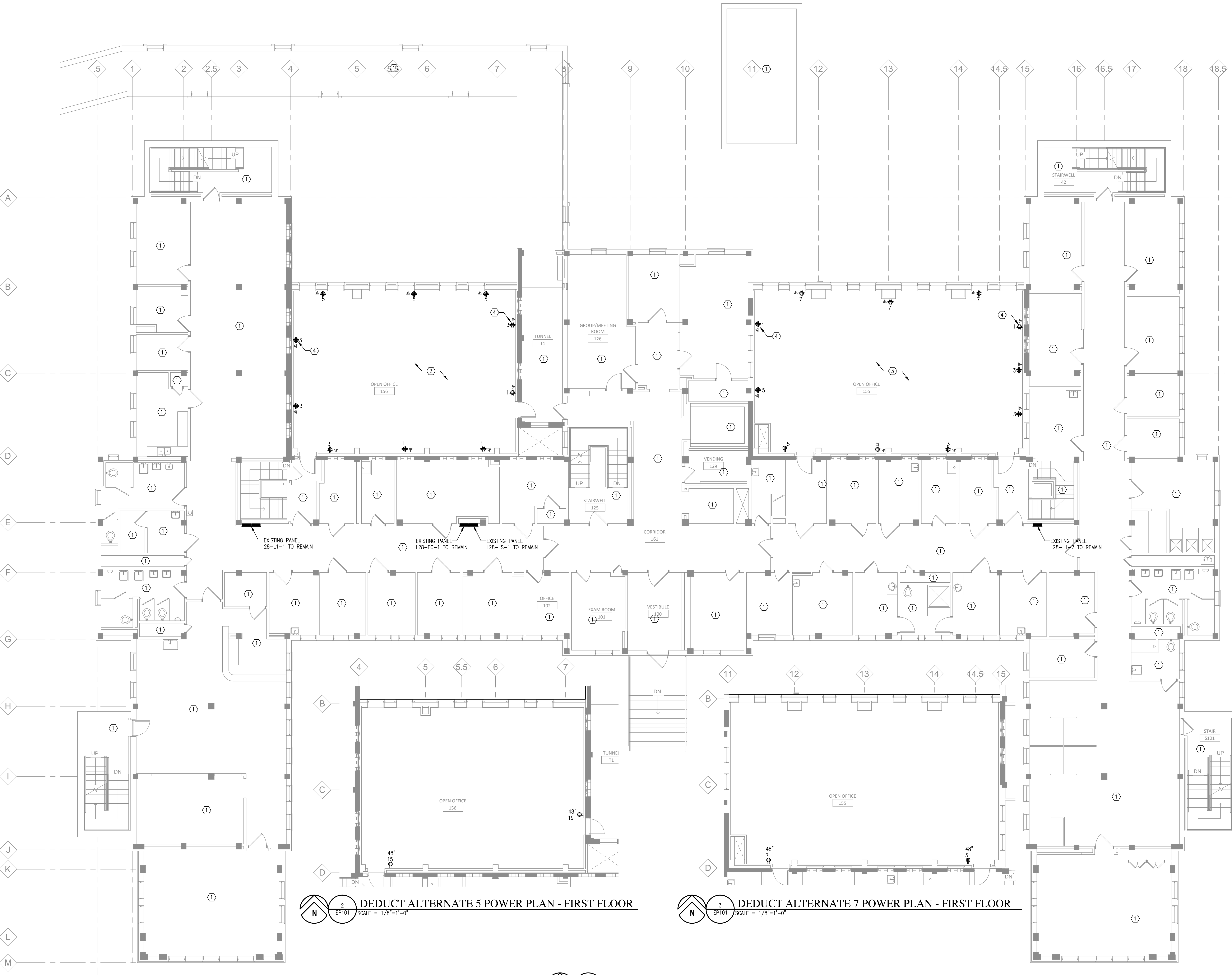


  **POWER PLAN - BASEMENT**
SCALE = 1/8"=1'-0"



St. Cloud VA
Health Care System
Brainerd | Montevideo | Alexandria

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



- GENERAL NOTES**
- A. SEAL ALL CONDUIT/RACEWAY PENETRATIONS OF SMOKE OR FIRE RATED WALLS OR FLOORS WITH INTUMESCENT TYPE BARRIER.
 - B. PROVIDE ALL BRANCH CIRCUITS WITH A DEDICATED NEUTRAL CONDUCTOR PER CIRCUIT TO MEET THE NEC.
 - C. INSTALL ELECTRICAL EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH SERVICING HVAC EQUIPMENT.
 - D. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION OF MOTORS AND EQUIPMENT.
 - E. REFER TO MECHANICAL PLANS FOR ALL NEW DUCT LOCATIONS, ROUTING, ETC. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND RELOCATE ALL ELECTRICAL AND LOW VOLTAGE THAT IS IN THE WAY OF NEW DUCT WORK INSTALLATION (I.E. CONDUIT, WIRE, LIGHT, FIRE ALARM, SOUND AND VOICE ETC.).
 - F. FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL LIGHTING, DEVICES, ETC. SEE ARCHITECTURAL REFLECTED CEILING PLAN. FOR WALL MOUNTED DEVICES REFER TO ARCHITECTURAL INTERIOR ELEVATIONS.
 - G. ALL RECEPTACLES WITH-IN 6'-0" OF A SINK SHALL BE GFI TYPE.
 - H. CONNECT ALL DEVICES SHOWN ON THIS PLAN TO PANEL 28-L1-2, CIRCUIT NUMBERS INDICATED, UNLESS NOTED OTHERWISE. USE SPARE BREAKERS IN PANEL. CIRCUIT NUMBERS INDICATED ARE FOR REFERENCE TO ILLUSTRATE DESIRED CIRCUITING. CONTRACTOR TO INDICATE ACTUAL CIRCUIT NUMBER USED ON RECORD PLANS.
 - I. REFER TO ET SERIES SHEETS FOR ADDITIONAL DIVISION 26 WORK (ALL ROUGH-IN FOR DIVISION 27 AND 28 WORK.).

- PLAN NOTES**
- 1 NO NEW WORK IN THIS AREA. MAINTAIN EXISTING ELECTRICAL, UNLESS NOTED OTHERWISE.
 - 2 REFER TO DETAIL 2/EP101 FOR ALTERNATE WORK IN THIS AREA. ALL WORK SHOWN ON DETAIL 1/EP101 SHALL BE INCLUDED IN BASE BID.
 - 3 REFER TO DETAIL 3/EP101 FOR ALTERNATE WORK IN THIS AREA. ALL WORK SHOWN ON DETAIL 1/EP101 SHALL BE INCLUDED IN BASE BID.
 - 4 MAKE CONNECTION TO PANEL L28-EC-1. PROVIDE BREAKER IN EXISTING SPACE. MATCH EXISTING PANELBOARD MANUFACTURER AND AIC RATING.

2 DEDUCT ALTERNATE 5 POWER PLAN - FIRST FLOOR
EP101 SCALE = 1/8"=1'-0"

3 DEDUCT ALTERNATE 7 POWER PLAN - FIRST FLOOR
EP101 SCALE = 1/8"=1'-0"

1 POWER PLAN - FIRST FLOOR
EP101 SCALE = 1/8"=1'-0"

100% CD SET

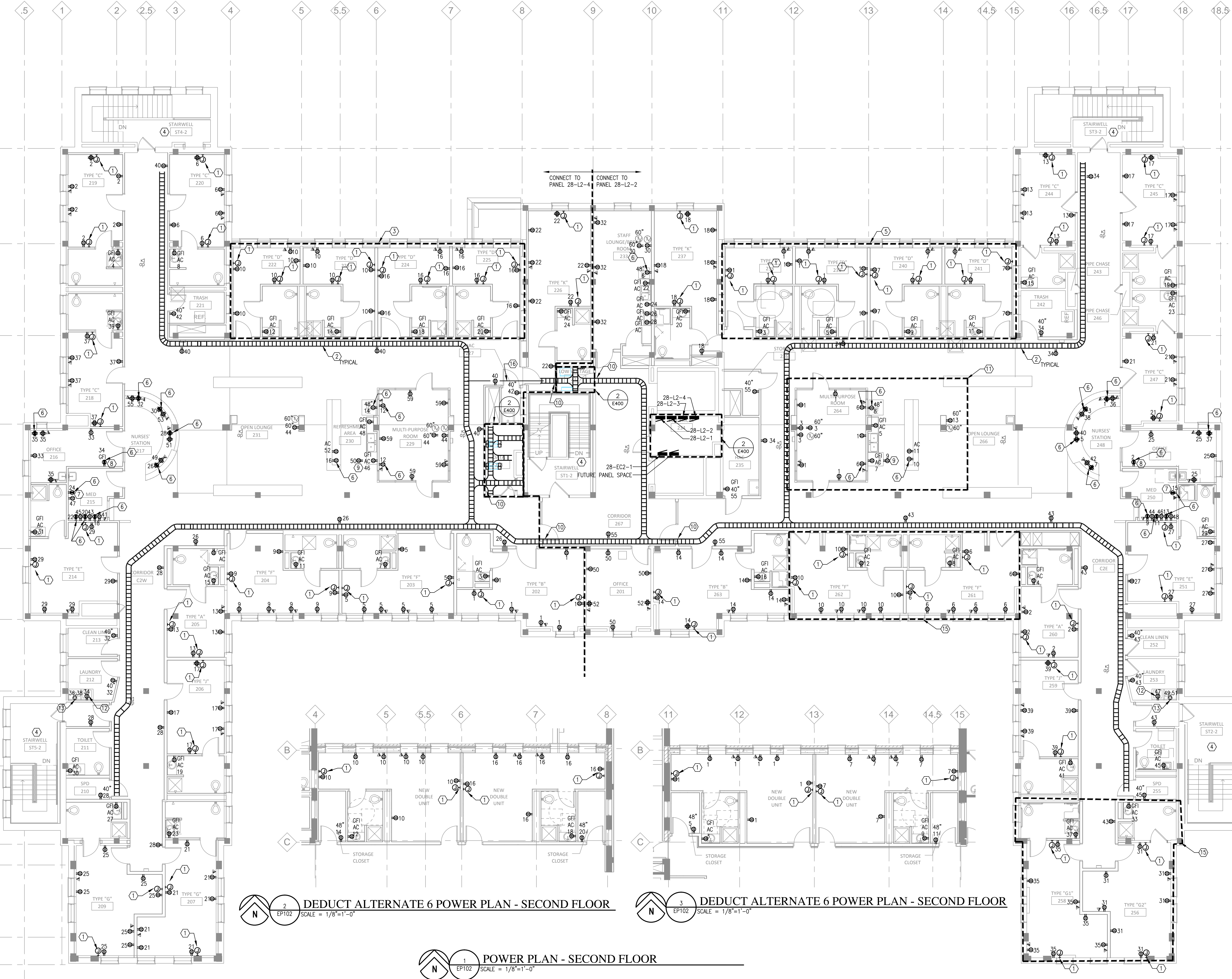
<p>No. REVISION DATE</p>		<p>Design Tree ENGINEERING AND LAND SURVEYING</p> <p>Alexandria Office 120 17th Avenue W. Alexandria, MN 56308 (507) 762-1290</p> <p>St. Cloud Office 3339 West St. Germain, Suite 250 St. Cloud, MN 56301 (507) 217-5557</p>	<p>JLC architects</p> <p>Alexandria 225 Broadway Street Alexandria, MN 56308 phone 320.759.9030 facsimile 320.759.9032 www.jlcarchitects.com copyright © 2013</p> <p>DTE 02212001</p>	<p>STAMP/SEAL I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION, OR REPORT INCLUDING ANY PART OF IT, OR ANY PART THEREOF, WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.</p> <p>AARON E. MUELLER, PE DATE: 12-20-2013</p>	<p>DRAWING TITLE POWER PLAN - FIRST FLOOR</p> <p>APPROVED: PROJECT DIRECTOR DATE:</p>	<p>PROJECT TITLE RECONFIGURE/EXPAND BUILDINGS 28 & 9 RESIDENTIAL REHABILITATION TREATMENT PROGRAM</p> <p>BIDDING No. 28 DESIGNED BY ARM DRAWN CAB/DLJ DATE FILE</p> <p>LOCATION ST. CLOUD VA MEDICAL CENTER ST. CLOUD, MN 56303</p>	<p>DATE 12-20-2013</p> <p>REVISIONS AS NOTED 656-12-339</p> <p>DRAWING NO. EP101</p>	<p>St. Cloud VA Health Care System Brainerd Montevideo Alexandria</p>
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GENERAL NOTES

- SEAL ALL CONDUIT/RACEWAY PENETRATIONS OF SMOKE OR FIRE RATED WALLS OR FLOORS WITH INTUMESCENT TYPE BARRIER.
- PROVIDE ALL BRANCH CIRCUITS WITH A DEDICATED NEUTRAL CONDUCTOR PER CIRCUIT TO MEET THE NEC.
- INSTALL ELECTRICAL EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH SERVICING HVAC EQUIPMENT.
- COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION OF MOTORS AND EQUIPMENT.
- REFER TO MECHANICAL PLANS FOR ALL NEW DUCT LOCATIONS, ROUTING, ETC. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND RELOCATE ALL ELECTRICAL AND LOW VOLTAGE THAT IS IN THE WAY OF NEW DUCT WORK INSTALLATION (I.E. CONDUIT, WIRE, LIGHT, FIRE ALARM, SOUND AND VOICE ETC.).
- FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL LIGHTING, DEVICES, ETC. SEE ARCHITECTURAL REFLECTED CEILING PLAN. FOR WALL MOUNTED DEVICES REFER TO ARCHITECTURAL INTERIOR ELEVATIONS.
- ALL RECEPTACLES WITH-IN 6'-0" OF A SINK SHALL BE GFI TYPE.
- DATA, VOICE, DATA/VOICE AND TV OUTLETS SHOWN LIGHT COLOR (SHADED) ARE SHOWN FOR REFERENCE AND COORDINATION FOR ROUGH-IN. REFER TO ET SERIES SHEETS FOR ADDITIONAL INFORMATION.

PLAN NOTES

- PROVIDE A 2 GANG DEEP J-BOX WITH SINGLE GANG MID RING, BLANK COVER PLATE AND A 3/4" CONDUIT STUB TO CABLE TRAY FOR FUTURE USE. MOUNT AT 18" AFF. CONDUIT SHALL BE BLUE IN COLOR.
- PROVIDE NEW LADDER CABLE TRAY ABOVE CEILING. COORDINATE WITH ALL TRADES PRIOR TO ROUGH-IN.
- REFER TO DETAIL 2/EP102 FOR ALTERNATE WORK IN THIS AREA. ALL WORK SHOWN ON DETAIL 1/EP102 SHALL BE INCLUDED IN BASE BID.
- MAKE ALL REQUIRED CONNECTION TO EXISTING ELECTRICAL IN THIS AREA. USE SPARE BREAKER IN NEW PANELS.
- REFER TO DETAIL 3/EP102 FOR ALTERNATE WORK IN THIS AREA. ALL WORK SHOWN ON DETAIL 1/EP102 SHALL BE INCLUDED IN BASE BID.
- CONNECT TO PANEL 28-EC2-1.
- MED FRIDGE.
- LAB SAMPLE FRIDGE.
- ICE MACHINE VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
- PROVIDE SPI EZ-PATH OR EQUAL FIRE AT WALL PENETRATION SYSTEM AT ALL LOCATIONS. EZ-PATH SHALL BE THE WITH OF CABLE TRAY. STOP CABLE TRAY AT WALL AND START ON THE OTHER SIDE OF WALL.
- ALL DEVICES IN THIS AREA SHALL BE CONNECTED TO PANEL 28-L2-3, UNLESS NOTED OTHERWISE.
- PROVIDE WASHER OUTLET.
- PROVIDE DRYER OUTLET.
- PROVIDE ALL WORK SHOWN UNDER ALTERNATE BID.
- ALL WORK SHOWN IN THIS AREA SHALL BE UNDER BASE BID. REFER TO SECOND FLOOR DEMOLITION PLAN FOR ALTERNATE WORK.
- PROVIDE (4) FOUR 4" CONDUITS FROM CABLE TRAY TO CABLE TRAY. CONDUIT SHALL BE BLUE IN COLOR.



2 DEDUCT ALTERNATE 6 POWER PLAN - SECOND FLOOR
SCALE = 1/8"=1'-0"

3 DEDUCT ALTERNATE 6 POWER PLAN - SECOND FLOOR
SCALE = 1/8"=1'-0"

1 POWER PLAN - SECOND FLOOR
SCALE = 1/8"=1'-0"

100% CD SET

No.	REVISION	DATE

VA FORM 08-6231



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Alexandria, MN 56308
(507) 762-1290

St. Cloud Office
3339 West St. Germain, Suite 250
St. Cloud, MN 56301
(507) 217-5557



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Alexandria, MN 56308
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OR OTHERWISE HAS BEEN USED BY ME OR UNDER MY
SUPERVISION AND IN ACCORDANCE WITH THE
MINNESOTA PROFESSIONAL ENGINEER ACT AND THE
UNIFORM JUDICIAL RULES OF PROFESSIONAL CONDUCT.

DATE: 12-20-2013
SIGNATURE: [Signature]
NAME: ANDREW MUELLER, PE
REG. NO.: [Blank]

DRAWING TITLE
**POWER PLAN -
SECOND FLOOR**

APPROVED: PROJECT DIRECTOR
DATE: [Blank]

PROJECT TITLE
**RECONFIGURE/EXPAND
BUILDINGS 28 & 9
RESIDENTIAL REHABILITATION
TREATMENT PROGRAM**

BIDDING No.
28

DESIGNED BY
ARM

DRAWN
CAB/DJL

DATE FILE
[Blank]

LOCATION
ST. CLOUD VA MEDICAL CENTER
ST. CLOUD, MN 56303

DRAWING No.
EP102



GENERAL NOTES

- A. SEAL ALL CONDUIT/RACEWAY PENETRATIONS OF SMOKE OR FIRE RATED WALLS OR FLOORS WITH INTUMESCENT TYPE BARRIER.
- B. PROVIDE ALL BRANCH CIRCUITS WITH A DEDICATED NEUTRAL CONDUCTOR PER CIRCUIT TO MEET THE NEC.
- C. INSTALL ELECTRICAL EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH SERVICING HVAC EQUIPMENT.
- D. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION OF MOTORS AND EQUIPMENT.
- E. REFER TO MECHANICAL PLANS FOR ALL NEW DUCT LOCATIONS, ROUTING, ETC. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND RELOCATE ALL ELECTRICAL AND LOW VOLTAGE THAT IS IN THE WAY OF NEW DUCT WORK INSTALLATION (I.E. CONDUIT, WIRE, LIGHT, FIRE ALARM, SOUND AND VOICE ETC.).
- F. FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL LIGHTING, DEVICES, ETC. SEE ARCHITECTURAL REFLECTED CEILING PLAN. FOR WALL MOUNTED DEVICES REFER TO ARCHITECTURAL INTERIOR ELEVATIONS.
- G. ALL RECEPTACLES WITH-IN 6'-0" OF A SINK SHALL BE GFI TYPE.

POWER PLAN - ATTIC
SCALE = 1/8"=1'-0"

100% CD SET

NO.	REVISION	DATE



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120 17th Avenue W.
Alexandria, MN 56308
(320) 762-1290

St. Cloud Office
3339 West St. Germain, Suite 250
St. Cloud, MN 56301
(320) 217-5557



DTE 02212001

STAMP/SEAL
I HEREBY CERTIFY THAT THIS SEAL SIGNIFICATION
ON THIS SET OF PLANS WAS MADE BY ME OR UNDER MY
DIRECT SUPERVISION AND THAT I AM A
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MINNESOTA.

AARON E. MUELLER, PE MIN 48154
DATE: 12-20-2013 REG. NO.

DRAWING TITLE
POWER PLAN -
ATTIC

APPROVED: PROJECT DIRECTOR DATE:

PROJECT TITLE
RECONFIGURE/EXPAND
BUILDINGS 28 & 9
RESIDENTIAL REHABILITATION
TREATMENT PROGRAM

BIDDING NO. 28
DESIGNED BY ARM
DRAWN CAB/DLJ
DATE FILE

LOCATION
ST. CLOUD VA MEDICAL CENTER
ST. CLOUD, MN 56303

DATE
12-20-2013
PROJECT STATUS
AS NOTED
PROJECT NO.
656-12-339
DRAWING NO.
EP103





GENERAL NOTES

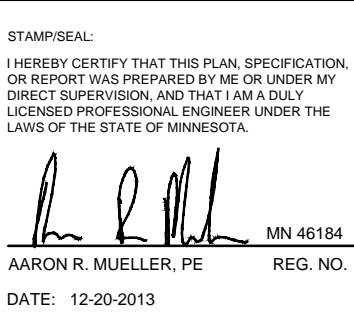
- A. INSTALL LIGHT SWITCHES AND WALL CONTROL STATIONS WITHIN ONE FOOT OF THE ADJACENT DOOR OR SIDE LIGHT.
- B. SEAL ALL CONDUIT/RACEWAY PENETRATIONS OF SMOKE OR FIRE RATED WALLS OR FLOORS WITH INTUMESCENT TYPE BARRIER.
- C. PROVIDE ALL BRANCH CIRCUITS WITH A DEDICATED NEUTRAL CONDUCTOR PER CIRCUIT.
- D. PROVIDE A NON-SWITCHED CIRCUIT TO ALL EMERGENCY LIGHT FIXTURES AND EXIT SIGNS.
- E. INSTALL ELECTRICAL EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH SERVICING HVAC EQUIPMENT.
- F. FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL LIGHTING, DEVICES, ETC. SEE ARCHITECTURAL REFLECTED CEILING PLAN. FOR WALL MOUNTED DEVICES REFER TO ARCHITECTURAL INTERIOR ELEVATIONS.
- G. ALL OCCUPANCY SENSORS SHALL BE COMMISSIONED BY A FACTORY REPRESENTATIVE ON SITE. PROVIDE TRAINING FOR THE OWNER ON THE LIGHTING CONTROLS (OCCUPANCY SENSORS).
- H. ALL OCCUPANCY SENSORS SHALL BE A MINIMUM OF THREE FEET AWAY FROM HVAC DIFFUSERS.

PLAN NOTES

- 1 NO WORK IN THIS AREA MAINTAIN EXISTING.
- 2 PROVIDE OCCUPANCY SENSOR AND POWER PACK TO OVER-RIDE LOCAL SWITCHES. REFER TO DETAIL ON SHEET E501. IF NO ACTIVITY IS SENSED FOR 30 MINUTES, THEN OCCUPANCY SENSOR SHALL TURN OFF LIGHTS.
- 3 CONNECT TO EXISTING PANEL 28-LS-1. PROVIDE A 20A-1P BREAKER IN EXISTING SPACE. CIRCUIT NUMBER INDICATED IS FOR REFERENCE TO INDICATE DESIRED CIRCUITING. CONTRACTOR TO INDICATE ACTUAL CIRCUIT NUMBER USED ON RECORD PLANS.
- 4 CONNECT TO EXISTING PANEL 28-L1-1, USE SPARE BREAKER, UNLESS NOTED OTHERWISE. CIRCUIT NUMBER INDICATED IS FOR REFERENCE TO INDICATE DESIRED CIRCUITING. CONTRACTOR TO INDICATE ACTUAL CIRCUIT NUMBER USED ON RECORD PLANS.
- 5 CONNECT TO EXISTING PANEL 28-L1-2, USE SPARE BREAKER, UNLESS NOTED OTHERWISE. CIRCUIT NUMBER INDICATED IS FOR REFERENCE TO INDICATE DESIRED CIRCUITING. CONTRACTOR TO INDICATE ACTUAL CIRCUIT NUMBER USED ON RECORD PLANS.
- 6 REFER TO DETAIL 2/EL101 FOR ALTERNATE WORK IN THIS AREA. ALL WORK SHOWN ON DETAIL 1/EL101 SHALL BE INCLUDED IN BASE BID
- 7 REFER TO DETAIL 3/EL101 FOR ALTERNATE WORK IN THIS AREA. ALL WORK SHOWN ON DETAIL 1/EL101 SHALL BE INCLUDED IN BASE BID
- 8 PROVIDE ALL WORK SHOWN UNDER ALTERNATE.
- 9 MAKE CONNECTION TO EXISTING EXIT LIGHTING CIRCUIT.
- 10 THIS FIXTURE SHALL BE NON-SWITCHED ON 100% OF THE TIME.
- 11 UNDER BASE BID PROVIDE WALL BOX DIMMERS TO CONTROL THE ROOM LIGHTING AND UNDER DEDUCT ALTERNATE 9 PROVIDE THE LINE VOLTAGE SWITCHING AS SHOWN. UNDER BASE BID ONE DIMMER SHALL CONTROL THE NORTH SIDE OF LIGHT FIXTURES AND THE OTHER DIMMER SHALL CONTROL THE SOUTH SIDE LIGHT FIXTURES. THE WALL BOX DIMMER SHALL BE A 1200W, LUTRON NOVA T SERIES OR EQUAL COMPATIBLE WITH LED LIGHT FIXTURES SPECIFIED AND PROVIDED.

100% CD SET

No.	REVISION	DATE



DRAWING TITLE	
LIGHTING PLAN - FIRST FLOOR	
APPROVED: PROJECT DIRECTOR	DATE:

PROJECT TITLE	
RECONFIGURE/EXPAND BUILDINGS 28 & 9 RESIDENTIAL REHABILITATION TREATMENT PROGRAM	
BIDDING No. 28	DESIGNED BY ARM
OWN CAB/DLL	DATE FILE
LOCATION ST. CLOUD VA MEDICAL CENTER ST. CLOUD, MN 56303	DRAWING No. EL101

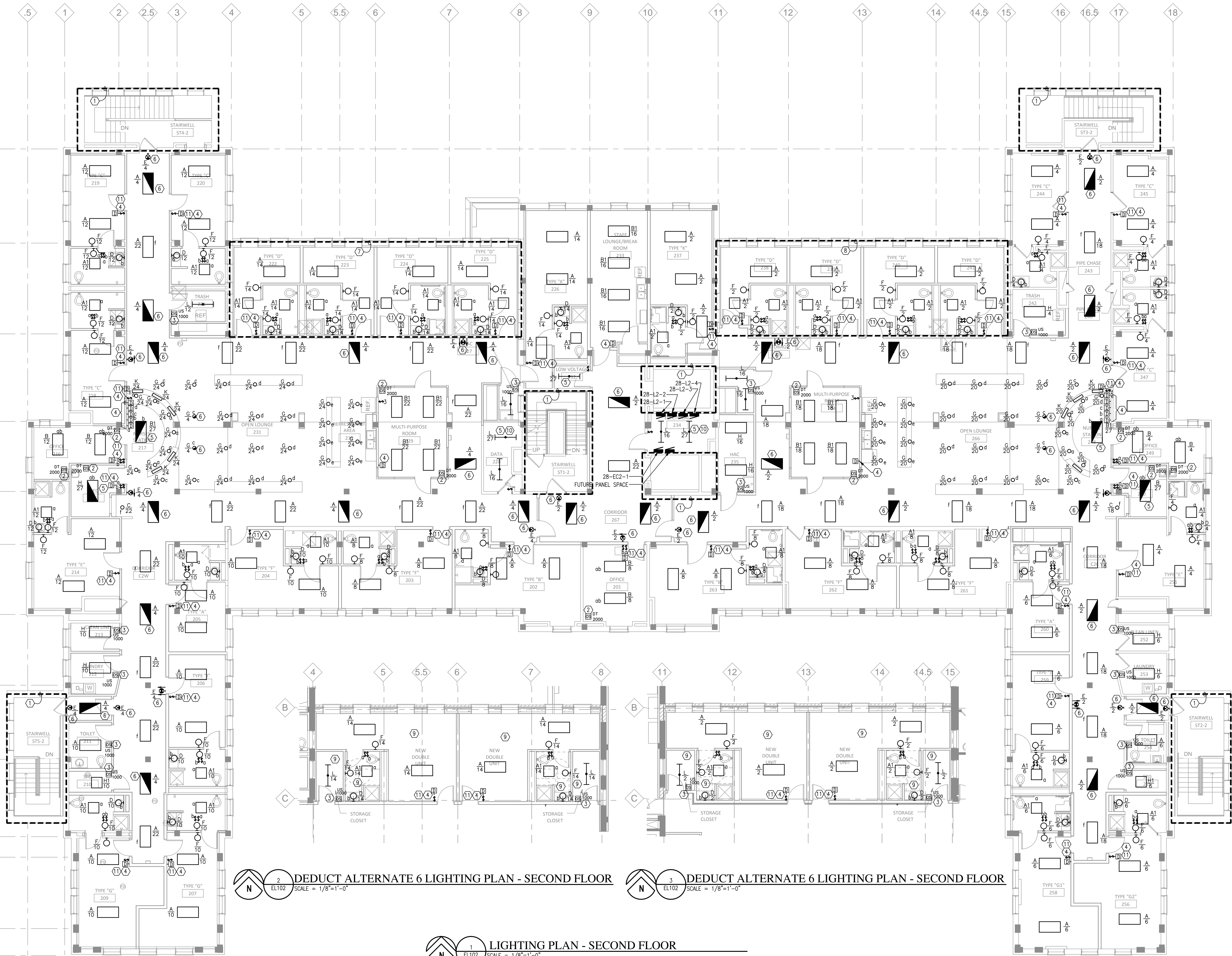


GENERAL NOTES

- INSTALL LIGHT SWITCHES AND WALL CONTROL STATIONS WITHIN ONE FOOT OF THE ADJACENT DOOR OR SIDE LIGHT.
- SEAL ALL CONDUIT/RACEWAY PENETRATIONS OF SMOKE OR FIRE RATED WALLS OR FLOORS WITH INTUMESCENT TYPE BARRIER.
- PROVIDE ALL BRANCH CIRCUITS WITH A DEDICATED NEUTRAL CONDUCTOR PER CIRCUIT.
- PROVIDE A NON-SWITCHED CIRCUIT TO ALL EMERGENCY LIGHT FIXTURES AND EXIT SIGNS.
- INSTALL ELECTRICAL EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH SERVICING HVAC EQUIPMENT.
- FOR EXACT LOCATION OF CEILING MOUNTED ELECTRICAL LIGHTING, DEVICES, ETC. SEE ARCHITECTURAL REFLECTED CEILING PLAN. FOR WALL MOUNTED DEVICES REFER TO ARCHITECTURAL INTERIOR ELEVATIONS.
- ALL OCCUPANCY SENSORS SHALL BE COMMISSIONED BY A FACTORY REPRESENTATIVE ON SITE. PROVIDE TRAINING FOR THE OWNER ON THE LIGHTING CONTROLS (OCCUPANCY SENSORS).
- ALL DEVICES ON THIS SHEET SHALL BE CONNECTED TO PANEL 28-L2-1 UNLESS NOTED OTHERWISE.
- ALL OCCUPANCY SENSORS SHALL BE A MINIMUM OF THREE FEET AWAY FROM HVAC DIFFUSERS.
- CONNECT ALL EXIT SIGNS TO PANEL 28-LS-1 LOCATED ON FIRST FLOOR. PROVIDE A 20 AMP BREAKER IN EXISTING SPACE.
- PATIENT ROOM NIGHT LIGHT SHALL BE SWITCHED W/INTEGRAL PHOTOCELL.

PLAN NOTES

- IN THIS AREA ELECTRICAL CONTRACTOR SHALL MAKE ALL REQUIRED CONNECTIONS TO EXISTING LIGHTING AND CONTROL FROM PANEL 28-LS-1 LOCATED ON FIRST FLOOR.
- PROVIDE OCCUPANCY SENSOR AND POWER PACK TO OVER-RIDE LOCAL SWITCHES. REFER TO DETAIL ON SHEET E501. IF NO ACTIVITY IS SENSED FOR 30 MINUTES, THEN OCCUPANCY SENSOR SHALL TURN OFF LIGHTS.
- PROVIDE OCCUPANCY SENSOR TO CONTROL ROOM LIGHTS.
- PROVIDE A 1200W WALL BOX DIMMER, LUTRON NOVA T SERIES OR EQUAL. PROVIDE COMPATIBLE DIMMER FOR LED BASE BID AND FLUORESCENT DEDUCT ALTERNATE 9.
- CONNECT TO PANEL 28-EC2-1.
- CONNECT TO PANEL 28-LS-1 LOCATED ON FIRST FLOOR. PROVIDE A 20AMP BREAKER IN EXISTING SPACE. CIRCUIT NUMBER INDICATED IS FOR REFERENCE TO INDICATE DESIRED CIRCUITING. CONTRACTOR TO INDICATE ACTUAL CIRCUIT NUMBER USED ON RECORD PLANS.
- REFER TO DETAIL 1/EL102 FOR ALTERNATE WORK IN THIS AREA. ALL WORK SHOWN ON DETAIL 1/EL102 SHALL BE INCLUDED IN BASE BID.
- REFER TO DETAIL 2/EL102 FOR ALTERNATE WORK IN THIS AREA. ALL WORK SHOWN ON DETAIL 1/EL102 SHALL BE INCLUDED IN BASE BID.
- PROVIDE ALL WORK SHOWN UNDER ALTERNATE.
- PROVIDE A WAITSTOPPER #ELCU-100 WITH MOUNTING ENCLOSURE OR EQUAL. (EMERGENCY LIGHTING CONTROL UNIT). REFER TO DETAILS.
- UNDER BASE BID PROVIDE WALL BOX DIMMER TO CONTROL THE ROOM LIGHTING AND UNDER DEDUCT ALTERNATE 9 PROVIDE LINE VOLTAGE SWITCHING AS SHOWN.



2 DEDUCT ALTERNATE 6 LIGHTING PLAN - SECOND FLOOR
EL102 SCALE = 1/8"=1'-0"

3 DEDUCT ALTERNATE 6 LIGHTING PLAN - SECOND FLOOR
EL102 SCALE = 1/8"=1'-0"

1 LIGHTING PLAN - SECOND FLOOR
EL102 SCALE = 1/8"=1'-0"

100% CD SET

NO.	REVISION	DATE



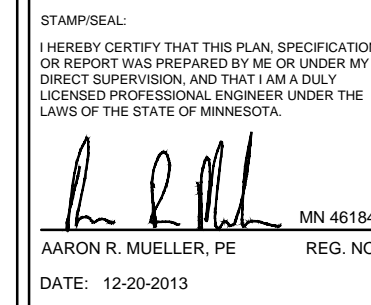
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DATE: 12-20-2013
MIN. REG. NO. 12-20-2013

DRAWING TITLE
LIGHTING PLAN - SECOND FLOOR

APPROVED: PROJECT DIRECTOR
DATE:

PROJECT TITLE
RECONFIGURE/EXPAND BUILDINGS 28 & 9 RESIDENTIAL REHABILITATION TREATMENT PROGRAM

BIDDING NO. 28
DESIGNED BY: ARM
DRAWN BY: CAB/DLJ

DATE: 12-20-2013
PROJECT NO. 656-12-339
DRAWING NO. EL102

LOCATION
ST. CLOUD VA MEDICAL CENTER
ST. CLOUD, MN 56303



three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one eighth inch = one foot
one eighth inch = one foot

- GENERAL NOTES**

A. INSTALL LIGHT SWITCHES AND WALL CONTROL STATIONS WITHIN ONE FOOT OF THE ADJACENT DOOR OR SIDE LIGHT.

B. SEAL ALL CONDUIT/RACEWAY PENETRATIONS OF SMOKE OR FIRE RATED WALLS OR FLOORS WITH INTUMESCENT TYPE BARRIER.

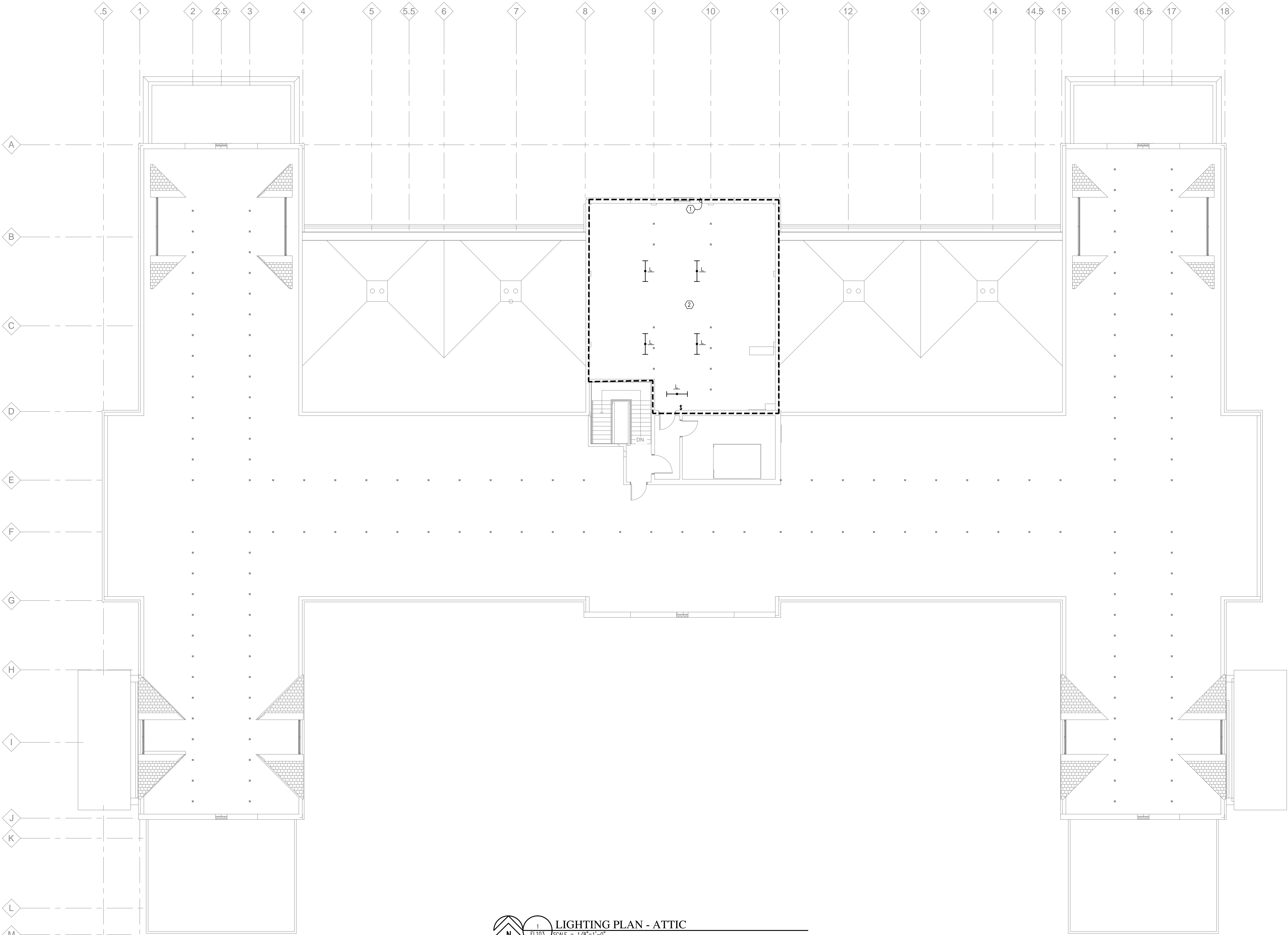
C. PROVIDE ALL BRANCH CIRCUITS WITH A DEDICATED NEUTRAL CONDUCTOR PER CIRCUIT.

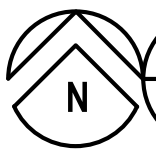
D. PROVIDE A NON-SWITCHED CIRCUIT TO ALL EMERGENCY LIGHT FIXTURES AND EXIT SIGNS.

E. INSTALL ELECTRICAL EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH SERVICING HVAC EQUIPMENT.
- PLAN NOTES**

① IN THIS AREA ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING LIGHTING AND CONTROL. EXISTING BRANCH CIRCUIT SHALL BE USED TO FEED NEW LIGHTING SHOWN.

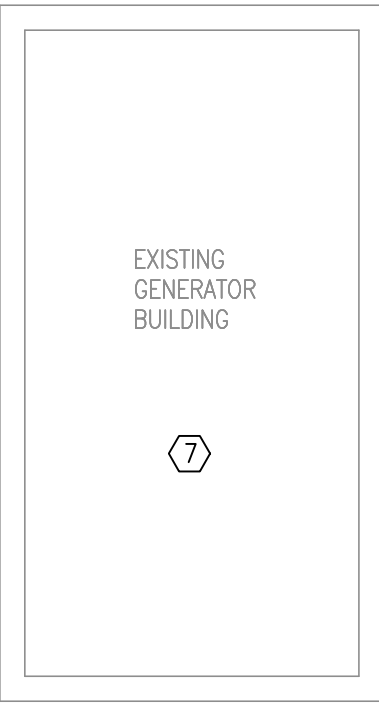
② REUSE EXISTING LIGHTING BRANCH CIRCUIT SALVAGED DURING DEMOLITION TO FEED NEW LIGHTING SHOWN. PROVIDE NEW LIGHTING CONTROL AS SHOWN.



 1
EL103
LIGHTING PLAN - ATTIC
SCALE = 1/8"=1'-0"

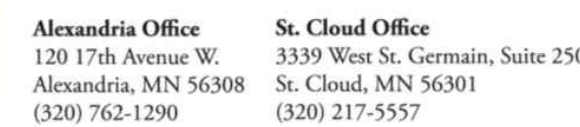
100% CD SET

<div><div>No</div><div>REVISION</div><div>DATE</div></div>		<div>Design Tree ENGINEERING AND LAND SURVEYING</div> <div><div>Alexandria Office 120 17th Avenue W. Alexandria, MN 56308 (320) 762-1290</div><div>St. Cloud Office 3339 West St. Germain, Suite 250 St. Cloud, MN 56301 (320) 217-5557</div></div>		<div>Alexandria 225 Broadway Street Alexandria, MN 56308 phone 320.759.9030 facsimile 320.759.9062 www.jlgarchitects.com copyright © 2013</div> <div>DTE 02212001</div>		<div><div>STAMP/SEAL HEREBY CERTIFY THAT THIS PLAN SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  AARON E. MUELLER, PE DATE: 12-20-2013 MIN. REG. NO. _____</div><div>DRAWING TITLE LIGHTING PLAN - ATTIC</div><div>APPROVED: PROJECT DIRECTOR _____ DATE: _____</div></div>		<div><div>PROJECT TITLE RECONFIGURE/EXPAND BUILDINGS 28 & 9 RESIDENTIAL REHABILITATION TREATMENT PROGRAM</div><div>BIDDING No. 28 DESIGNED BY ARM DRAWN CAB/DLJ FILE FILE</div><div>LOCATION ST. CLOUD VA MEDICAL CENTER ST. CLOUD, MN 56303</div></div> <div><div>DATE 12-20-2013</div><div>REVISIONS AS NOTED 656-12-339</div><div>DRAWING NO. EL103</div></div>		<div>St. Cloud VA Health Care System Brainerd Montevideo Alexandria</div>	
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- A. SEAL ALL JOINTS/CRACKS/WEAR PENETRATIONS OF SMOKE OR FIRE RATED WALLS OR FLOORS WITH INTUMESCENT TYPE BARRIER.
- B. ALL CONDUITS, BACK BOXES, RACEWAYS, COVERPLATES, ETC. FOR VOICE, DATA, VIDEO, PAGING, NURSE CALL, CCTV AND CARD ACCESS OUTLETS ARE PROVIDED BY DIVISION 26 ELECTRICAL CONTRACTOR AS DESCRIBED IN SPECIFICATION SECTION 26 05 34 AND SHOWN ON ELECTRICAL DETAIL SHEETS.
- C. ALL TECHNOLOGY SYSTEMS CABLING, DEVICES, EQUIPMENT INSTALLATION, CONNECTIONS AND TESTING FOR VOICE, DATA, VIDEO, PAGING, NURSE CALL, CCTV AND CARD ACCESS OUTLETS ARE TO BE PROVIDED BY A LICENSED LOW VOLTAGE/POWER LIMITED COMMUNICATIONS CONTRACTOR/SUBCONTRACTOR AS SHOWN ON TECHNOLOGY PLAN AND DETAIL SHEETS AND AS SPECIFIED IN DIVISION 27 SPECIFICATIONS.
- D. ALL NETWORK ELECTRONICS (SWITCHES, SERVERS, ROUTERS, ETC.) AND WIRELESS ACCESS POINTS REQUIRED TO ACTIVATE THE LAN/WLAN DATA NETWORK ARE TO BE PROVIDED BY THE OWNER.
- E. PROVIDE PLENUM RATED WIRE FOR ALL TECHNOLOGY CABLING REQUIRED TO DEVICES INDICATED ON TECHNOLOGY PLAN AND REFER TO TECHNOLOGY DETAIL SHEET AND DIVISION 27 SPECIFICATIONS.
- F. FOR EXACT LOCATION OF CEILING MOUNTED TECHNOLOGY DEVICES SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR WALL MOUNTED DEVICES REFER TO ARCHITECTURAL INTERIOR ELEVATIONS.
- G. TECHNOLOGY DEVICES EQUIPMENT, COMPONENTS, ETC SHOWN SCREENED (LIGHTLY SHADED) ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. DEVICES ETC SHOWN BOLD ARE NEW AND SHALL BE PROVIDED UNDER THIS CONTRACT.
- H. MODIFY EXISTING FIRE ALARM AND PAGING SYSTEMS FOR THE ADDITION OF NEW DEVICES AND PROVIDE ALL WIRING, PROGRAMMING AND COMPONENTS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- I. CONTRACTOR SHALL REMOVE AND THEN REINSTALL CEILING TILES FOR HIS/HER WORK. DAMAGED TILES SHALL BE REPLACE AT NO ADDITIONAL COST TO THE OWNER. REFER TO SPECIFICATION FOR FURTHER INFORMATION.
- J. WHERE NO CABLE TRAY IS SHOWN SUPPORT ALL CABLES EVERY 48" -60" USING APPROVED J-HOOK HANGERS AS DESCRIBED IN SECTION 27 13 00.
- K. ALL NEW TECHNOLOGY DEVICES SHOWN TO BE INSTALLED ON EXISTING BLOCK WALLS SHALL BE CUT IN BY DIVISION 26 ELECTRICAL CONTRACTOR. DIVISION TECHNOLOGY CONTRACTOR IS RESPONSIBLE FOR PROVIDING COVERPLATES FOR TECHNOLOGY DEVICE MOUNTING.
- L. ALL NEW TECHNOLOGY DEVICES SHOWN TO BE INSTALLED ON EXISTING SHEET AND NEW TECHNOLOGY DEVICES SHALL BE MOUNTED IN RECESSED BACKBOXES PROVIDED BY DIVISION 26 ELECTRICAL CONTRACTOR.
- M. PROVIDE NEW COMMUNICATIONS RACK IN NEW TELECOMMUNICATIONS ROOM, CATEGORY 6 PATCH PANELS AS REQUIRED TO TERMINATE ALL DATA OUTLETS, 110-STYLE TERMINATION BLOCKS AS REQUIRED TO TERMINATE ALL VOICE OUTLETS, VERTICAL AND HORIZONTAL CABLE MANAGEMENT, POWER STRIPS, AND GROUND NEW COMMUNICATIONS RACK.
- N. PROVIDE NEW HORIZONTAL UTP CATEGORY 5e+ ONFP CORDSET CABLING FOR ALL NEW TECHNOLOGY VOICE AND DATA OUTLETS SHOWN, ROUTE CABLING TO NEW TELECOMMUNICATIONS ROOM. TERMINATE AND TEST.
- O. PROVIDE NEW PLENUM RATED WIRING TO ALL NURSE CALL DEVICE LOCATIONS SHOWN AS REQUIRED, IN ACCORDANCE WITH NURSING CALL MANUFACTURERS CABLE REQUIREMENTS, TO NEW LOW VOLTAGE EQUIPMENT ROOM.
- P. PROVIDE NEW PLENUM RATED RG-6+5U COAXIAL CABLING FROM NEW CCTV CAMERA LOCATIONS SHOWN AND ROUTE TO CCTV SURVEILLANCE SYSTEM HEADEND LOCATION IN NEW LOW VOLTAGE EQUIPMENT ROOM.
- Q. PROVIDE NEW PLENUM RATED WIRING TO ALL CARD READER/CARD ACCESS DEVICE LOCATIONS SHOWN AND ROUTE TO CARD READER HEADEND LOCATION IN NEW LOW VOLTAGE EQUIPMENT ROOM.
- R. #6 AWG GREEN JACKETED COPPER GROUND WIRE BETWEEN THE TELECOMMUNICATIONS GROUNDING BUSBAR (TWB8 OR TGB) PROVIDED BY THE ELECTRICAL CONTRACTOR AND EACH COMMUNICATIONS RACK AND HAVE GROUNDING CONNECTION. REFER TO TECHNOLOGY DETAILS ON THIS SHEET AND DIVISION 27 SPECIFICATIONS.

- ① EXISTING DATA ROOM.
- ② EXISTING PA SYSTEM AMPLIFIER. EXTEND TO ALL NEW SPEAKERS.
- ③ PROVIDE NEW MULTIMODE OPTICAL FIBER TO NEW DATA ROOM ON 2ND FLOOR ABOVE.
- ④ PROVIDE NEW 100PR COPPER WIRE BACKBONE TO NEW DATA ROOMS ON FLOORS ABOVE AND DATA CENTER IN BLDG 108. REFER TO OVERALL SITE PLAN, AND TECHNOLOGY SPECIFICATIONS AND DETAILS FOR FURTHER INFORMATION.
- ⑤ PROVIDE NEW CEILING MOUNTED FIRE ALARM SPEAKER/INTERCOM (PAGING) SPEAKER (SPEAKER BY DIVISION 28) AND TIE INTO EXISTING FIRE ALARM AND INTERCOM (PAGING) SYSTEMS. REFER TO SPECIFICATIONS AND ELECTRICAL DETAILS FOR FURTHER INFORMATION.
- ⑥ EXISTING SECURITY SYSTEM HEAD END. EXPAND AND EXTEND TO NEW DEVICES SHOWN ON FLOORS ABOVE.
- ⑦ NO WORK IN THIS AREA MAINTAIN EXISTING UNLESS NOTED OTHERWISE.
- ⑧ PROVIDE COMBINATION VOICE/DATA CATEGORY 5e CABLEING, DEVICE COMMUNICATIONS OUTLET AT LOCATION SHOWN AND ROUTE TO TELECOMMUNICATIONS ROOM (TR) ON SAME FLOOR. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT TO EXISTING CABLE TRAY FROM DEVICE.
- ⑨ PROVIDE VOICE CATEGORY 5e CABLE, DEVICE COMMUNICATIONS OUTLET AT LOCATION SHOWN AND ROUTE TO TELECOMMUNICATIONS ROOM (TR) ON SAME FLOOR. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT TO EXISTING CABLE TRAY FROM DEVICE.
- ⑩ PROVIDE ONE (1) CATEGORY 5e CABLE TO CEILING MOUNTED WIRELESS ACCESS POINT OUTLET LOCATION SHOWN FOR CONNECTION TO FUTURE WIRELESS ACCESS POINT ROUTE TO TELECOMMUNICATIONS ROOM (TR) ON SAME FLOOR. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT TO EXISTING CABLE TRAY FROM DEVICE.
- ⑪ UNDER ALTERNATE BID PROVIDE ONLY THE WORK SHOWN IN THIS ROOM.
- ⑫ REFER TO DETAIL 2 ON THIS SHEET FOR WORK UNDER ALTERNATE 1.
- ⑬ REFER TO DETAIL 3 ON THIS SHEET FOR WORK UNDER ALTERNATE 1.

VA FORM 08-6231

STAMP/SEAL:
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION
OR REPORT WAS PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION, AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE
LAWS OF THE STATE OF MINNESOTA.

 MN 46154

AARON R. MUELLER, PE REG. NO.

DATE: 12-20-2013

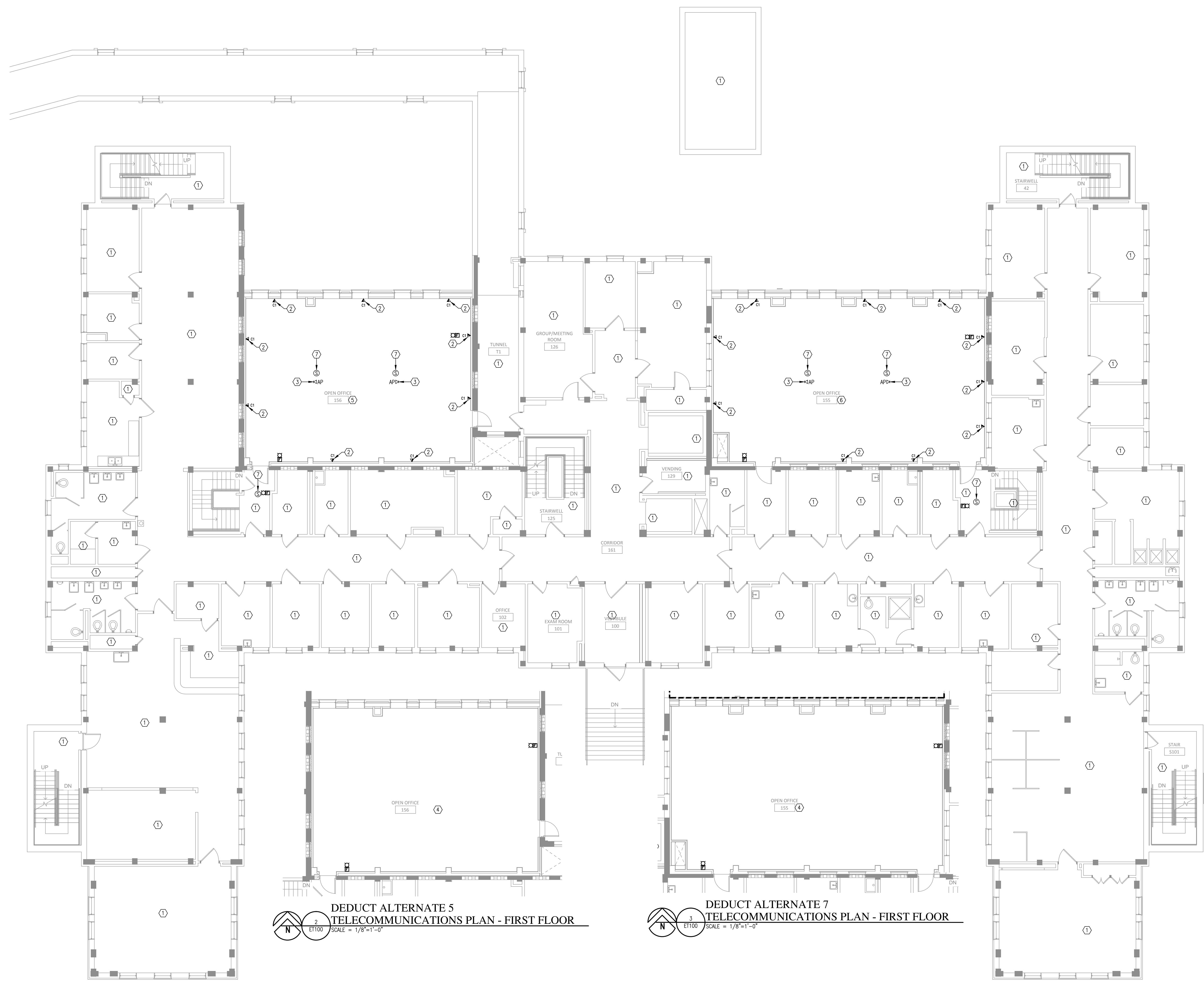
DRAWING TITLE	
TELECOMMUNICATIONS PLAN - BASEMENT	
APPROVED: PROJECT DIRECTOR:	DATE:

PROJECT TITLE		DATE	
RECONFIGURE/EXPAND BUILDINGS 28 & 9		12.20.2013	
RESIDENTIAL REHABILITATION TREATMENT PROGRAM		PROJECT SCALE AS NOTED	
		PROJECT NO. 656-12-339	
BUILDING No	CREATED BY	DESIGN	CAD FILE
28	ARM	CAB/DLJ	
LOCATION	DRAWING NO.		
ST. CLOUD VA MEDICAL CENTER			

St. Cloud VA
Health Care System
Brainerd | Montevideo | Alexandria

100% CD SET

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



- ### GENERAL NOTES
- SEAL ALL CONDUIT/RACEWAY PENETRATIONS OF SMOKE OR FIRE RATED WALLS OR FLOORS WITH INTUMESCENT TYPE BARRIER.
 - ALL CONDUITS, BACK BOXES, RACEWAYS, COVERPLATES, ETC. FOR VOICE, DATA, VIDEO, PAGING, NURSE CALL, CCTV AND CARD ACCESS OUTLETS ARE PROVIDED BY DIVISION 26 ELECTRICAL CONTRACTOR AS DESCRIBED IN SPECIFICATION SECTION 26 05 34 AND SHOWN ON ELECTRICAL DETAIL SHEETS.
 - ALL TECHNOLOGY SYSTEMS CABLEING, DEVICES, EQUIPMENT INSTALLATION, CONNECTIONS AND TESTING FOR VOICE, DATA, VIDEO, PAGING, NURSE CALL, CCTV AND CARD ACCESS OUTLETS ARE TO BE PROVIDED BY A LICENSED LOW VOLTAGE/POWER LIMITED COMMUNICATIONS CONTRACTOR/SUBCONTRACTOR AS SHOWN ON TECHNOLOGY PLAN AND DETAIL SHEETS AND AS SPECIFIED IN DIVISION 27 SPECIFICATION.
 - ALL NETWORK ELECTRONICS (SWITCHES, SERVERS, ROUTERS, ETC.) AND WIRELESS ACCESS POINTS REQUIRED TO ACTIVATE THE LAN/WLAN DATA NETWORK ARE TO BE PROVIDED BY THE OWNER.
 - PROVIDE PLENUM RATED WIRE FOR ALL TECHNOLOGY CABLEING REQUIRED TO DEVICES INDICATED ON TECHNOLOGY PLAN AND REFER TO TECHNOLOGY DETAIL SHEET AND DIVISION 27 SPECIFICATIONS.
 - FOR EXACT LOCATION OF CEILING MOUNTED TECHNOLOGY DEVICES SEE ARCHITECTURAL REFLECTED CEILING PLAN. FOR WALL MOUNTED DEVICES REFER TO ARCHITECTURAL INTERIOR ELEVATIONS.
 - TECHNOLOGY DEVICES EQUIPMENT, COMPONENTS, ETC SHOWN SCREENED (LIGHTLY SHADED) ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. DEVICES, ETC SHOWN BOLD ARE NEW AND SHALL BE PROVIDED UNDER THIS CONTRACT.
 - MODIFY EXISTING FIRE ALARM AND PAGING SYSTEMS FOR THE ADDITION OF NEW DEVICES SHOWN. PROVIDE ALL PROGRAMMING AND COMPONENTS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
 - CONTRACTOR SHALL REMOVE AND THEN REINSTALL CEILING TILES FOR HIS/HER WORK. DAMAGED TILES SHALL BE REPLACE AT NO ADDITIONAL COST TO THE OWNER. REFER TO SPECIFICATION FOR FURTHER INFORMATION.
 - WHERE NO CABLE TRAY IS SHOWN SUPPORT ALL CABLES EVERY 48"-60" USING APPROVED J-HOOK HANGERS AS DESCRIBED IN SECTION 27 13 00.
 - ALL NEW TECHNOLOGY DEVICES SHOWN TO BE INSTALLED ON EXISTING BLOCK WALLS SHALL BE CUT IN BY DIVISION 26 ELECTRICAL CONTRACTOR. DIVISION TECHNOLOGY CONTRACTOR IS RESPONSIBLE FOR PROVIDING COVERPLATES FOR TECHNOLOGY DEVICE MOUNTING.
 - ALL NEW TECHNOLOGY DEVICES SHOWN TO BE INSTALLED ON EXISTING SHEET AND NEW ROCK WALLS SHALL BE FLUSH MOUNTED IN RECESSED BACKBOXES PROVIDED BY DIVISION 26 ELECTRICAL CONTRACTOR.
 - PROVIDE NEW COMMUNICATIONS RACK IN NEW TELECOMMUNICATIONS ROOM, CATEGORY 6 PATCH PANELS AS REQUIRED TO TERMINATE ALL DATA OUTLETS, 110-STYLE TERMINATION BLOCKS AS REQUIRED TO TERMINATE ALL VOICE OUTLETS, VERTICAL AND HORIZONTAL CABLE MANAGEMENT, POWER STRIPS, AND GROUND NEW COMMUNICATIONS RACK.
 - PROVIDE NEW HORIZONTAL UTP CATEGORY 5e ONFP COPPER CABLEING FOR ALL NEW TECHNOLOGY VOICE AND DATA OUTLETS SHOWN, ROUTE CABLEING TO NEW TELECOMMUNICATIONS ROOM, TERMINATE, AND TEST.
 - PROVIDE NEW PLENUM RATED WIRING TO ALL NURSE CALL DEVICE LOCATIONS SHOWN AS REQUIRED, IN ACCORDANCE WITH NURSE CALL MANUFACTURERS CABLEING REQUIREMENTS, TO NEW LOW VOLTAGE EQUIPMENT ROOM.
 - PROVIDE NEW PLENUM RATED RG-6/U COAXIAL CABLEING FROM NEW CCTV CAMERA LOCATIONS SHOWN AND ROUTE TO CCTV SURVEILLANCE SYSTEM HEADEND LOCATION IN NEW LOW VOLTAGE EQUIPMENT ROOM.
 - PROVIDE NEW PLENUM RATED WIRING TO ALL CARD READER/CARD ACCESS DEVICE LOCATIONS SHOWN AND ROUTE TO CARD READER HEADEND LOCATION IN NEW LOW VOLTAGE EQUIPMENT ROOM.
 - #6 AWG GREEN JACKETED COPPER GROUND WIRE BETWEEN THE TELECOMMUNICATIONS GROUNDING BUSBAR (TMSR OR TOS) PROVIDED BY ELECTRICAL CONTRACTOR AND EACH COMMUNICATIONS RACK AND MAKE GROUNDING CONNECTION. REFER TO TECHNOLOGY DETAILS ON THIS SHEET AND DIVISION 27 SPECIFICATIONS.

- ### PLAN NOTES
- NO WORK IN THIS AREA MAINTAIN EXISTING TECHNOLOGY UNLESS NOTED OTHERWISE.
 - PROVIDE COMBINATION VOICE/DATA CATEGORY 5e CABLEING, DEVICE COMMUNICATIONS OUTLET AT LOCATION SHOWN AND ROUTE TO TELECOMMUNICATIONS ROOM (TR) ON 2ND FLOOR. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT TO EXISTING CABLE TRAY FROM DEVICE.
 - PROVIDE ONE (1) CATEGORY 5e CABLE TO CEILING MOUNTED WIRELESS ACCESS POINT OUTLET LOCATION SHOWN FOR CONNECTION TO FUTURE WIRELESS ACCESS POINT AND ROUTE TO TELECOMMUNICATIONS ROOM (TR) ON SAME FLOOR. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT TO EXISTING CABLE TRAY FROM DEVICE.
 - UNDER ALTERNATE BID PROVIDE ONLY THE WORK SHOWN IN THIS ROOM.
 - REFER TO DETAIL 2 ON THIS SHEET FOR WORK UNDER ALTERNATE 1.
 - REFER TO DETAIL 3 ON THIS SHEET FOR WORK UNDER ALTERNATE 1.
 - PROVIDE NEW CEILING MOUNTED FIRE ALARM SPEAKER/INTERCOM (PAGING) SPEAKER (SPEAKER BY DIVISION 28) AND TIE INTO EXISTING FIRE ALARM AND INTERCOM (PAGING) SYSTEMS. REFER TO SPECIFICATIONS AND ELECTRICAL DETAILS FOR FURTHER INFORMATION.

DEDUCT ALTERNATE 5
TELECOMMUNICATIONS PLAN - FIRST FLOOR
SCALE = 1/8"=1'-0"

DEDUCT ALTERNATE 7
TELECOMMUNICATIONS PLAN - FIRST FLOOR
SCALE = 1/8"=1'-0"

TELECOMMUNICATIONS PLAN - FIRST FLOOR
SCALE = 1/8"=1'-0"

100% CD SET

No.	REVISION	DATE



STAMP/SEAL
I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
AARON E. MUELLER, PE
DATE: 12-20-2013
MIN. REG. NO. _____

DRAWING TITLE
TELECOMMUNICATIONS PLAN - FIRST FLOOR
APPROVED: PROJECT DIRECTOR
DATE: _____

PROJECT TITLE
RECONFIGURE/EXPAND BUILDINGS 28 & 9 RESIDENTIAL REHABILITATION TREATMENT PROGRAM
BIDDING No. 28
DESIGNED BY ARM
DRAWN CAB/D/L
DATE FILE
PROJECT No. 656-12-339
LOCATION ST. CLOUD VA MEDICAL CENTER ST. CLOUD, MN 56303
DRAWING No. ET101



three eighths inch = one foot
one eighth inch = one foot
one quarter inch = one foot
one half inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot
four inches = one foot
five inches = one foot
six inches = one foot
seven inches = one foot
eight inches = one foot
nine inches = one foot
ten inches = one foot
eleven inches = one foot
twelve inches = one foot
thirteen inches = one foot
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fifteen inches = one foot
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eighteen inches = one foot
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twenty eight inches = one foot
twenty nine inches = one foot
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thirty one inches = one foot
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seventy four inches = one foot
seventy five inches = one foot
seventy six inches = one foot
seventy seven inches = one foot
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eighty inches = one foot
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eighty five inches = one foot
eighty six inches = one foot
eighty seven inches = one foot
eighty eight inches = one foot
eighty nine inches = one foot
ninety inches = one foot
ninety one inches = one foot
ninety two inches = one foot
ninety three inches = one foot
ninety four inches = one foot
ninety five inches = one foot
ninety six inches = one foot
ninety seven inches = one foot
ninety eight inches = one foot
ninety nine inches = one foot
one hundred inches = one foot

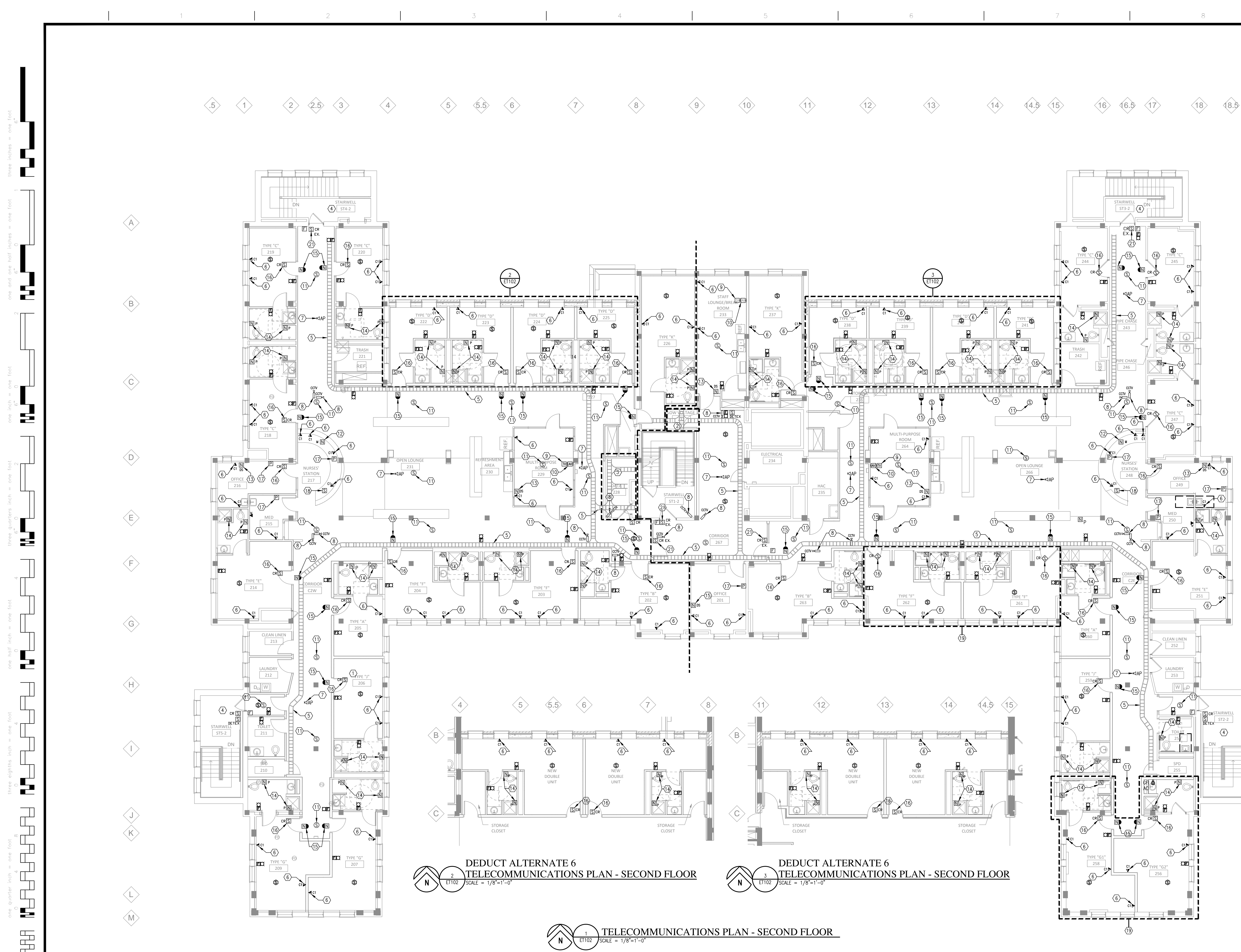
GENERAL NOTES

- SEAL ALL CONDUIT/RACEWAY PENETRATIONS OF SMOKE OR FIRE RATED WALLS OR FLOORS WITH INTUMESCENT TYPE BARRIER.
- ALL CONDUITS, BACK BOXES, RACEWAYS, COVERPLATES, ETC. FOR VOICE, DATA, VIDEO, PAGING, NURSE CALL, CCTV AND CARD ACCESS OUTLETS ARE PROVIDED BY DIVISION 26 ELECTRICAL CONTRACTOR AS DESCRIBED IN SPECIFICATION SECTION 26 05 34 AND SHOWN ON ELECTRICAL POWER AND SYSTEMS PLAN AND DETAIL SHEETS.
- ALL TECHNOLOGY SYSTEMS CABLEING, DEVICES, EQUIPMENT INSTALLATION, CONNECTIONS AND TESTING FOR VOICE, DATA, VIDEO, PAGING, NURSE CALL, CCTV AND CARD ACCESS OUTLETS ARE TO BE PROVIDED BY A LICENSED LOW VOLTAGE/POWER LIMITED COMMUNICATIONS CONTRACTOR/SUBCONTRACTOR AS SHOWN ON TECHNOLOGY PLAN AND DETAIL SHEETS AND AS SPECIFIED IN DIVISION 27 SPECIFICATION.
- ALL NETWORK ELECTRONICS (SWITCHES, SERVERS, ROUTERS, ETC.) AND WIRELESS ACCESS POINTS REQUIRED TO ACTIVATE THE LAN/WAN DATA NETWORK ARE TO BE PROVIDED BY THE OWNER.
- PROVIDE PLENUM RATED WIRE FOR ALL TECHNOLOGY CABLEING REQUIRED TO DEVICES INDICATED ON TECHNOLOGY PLAN AND REFER TO TECHNOLOGY DETAIL SHEET AND DIVISION 27 SPECIFICATIONS.
- FOR EXACT LOCATION OF CEILING MOUNTED TECHNOLOGY DEVICES SEE ARCHITECTURAL REFLECTED CEILING PLAN. FOR WALL MOUNTED DEVICES REFER TO ARCHITECTURAL INTERIOR ELEVATIONS.
- TECHNOLOGY DEVICES EQUIPMENT, COMPONENTS, ETC SHOWN SCREENED (LIGHTLY SHADED) ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. DEVICES, ETC SHOWN BOLD ARE NEW AND SHALL BE PROVIDED UNDER THIS CONTRACT.
- MODIFY EXISTING FIRE ALARM AND PAGING SYSTEMS FOR THE ADDITION OF NEW DEVICES SHOWN. PROVIDE ALL PROGRAMMING AND COMPONENTS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- CONTRACTOR SHALL REMOVE AND THEN REINSTALL CEILING TILES FOR HIS/HER WORK. DAMAGED TILES SHALL BE REPLACE AT NO ADDITIONAL COST TO THE OWNER. REFER TO SPECIFICATION FOR FURTHER INFORMATION.
- WHERE NO CABLE TRAY IS SHOWN SUPPORT ALL CABLES EVERY 48"-60" USING APPROVED J-HOOK HANGERS AS DESCRIBED IN SECTION 27 13 00.
- ALL NEW TECHNOLOGY DEVICES SHOWN TO BE INSTALLED ON EXISTING BLOCK WALLS SHALL BE INSTALLED IN SURFACE RACEWAY PROVIDED BY DIVISION 26 ELECTRICAL CONTRACTOR. DIVISION TECHNOLOGY CONTRACTOR IS RESPONSIBLE FOR PROVIDING COVERPLATES FOR TECHNOLOGY DEVICE MOUNTING.
- ALL NEW TECHNOLOGY DEVICES SHOWN TO BE INSTALLED ON EXISTING SHEET AND NEW ROCK WALLS SHALL BE FLUSH MOUNTED IN RECESSED BACKBOXES PROVIDED BY DIVISION 26 ELECTRICAL CONTRACTOR.
- PROVIDE NEW COMMUNICATIONS RACK IN NEW TELECOMMUNICATIONS ROOM, CATEGORY 6 PATCH PANELS AS REQUIRED TO TERMINATE ALL DATA OUTLETS, 110-STYLE TERMINATION BLOCKS AS REQUIRED TO TERMINATE ALL VOICE OUTLETS, VERTICAL AND HORIZONTAL CABLE MANAGEMENT, POWER STRIPS, AND GROUND NEW COMMUNICATIONS RACK.
- PROVIDE NEW HORIZONTAL UTP CATEGORY 5e ONPP COPPER CABLEING FOR ALL NEW TECHNOLOGY VOICE AND DATA OUTLETS SHOWN. ROUTE CABLEING TO NEW TELECOMMUNICATIONS ROOM, TERMINATE, AND TEST.
- PROVIDE NEW PLENUM RATED WIRING TO ALL NURSE CALL DEVICE LOCATIONS SHOWN AS REQUIRED, IN ACCORDANCE WITH NURSE CALL MANUFACTURERS CABLEING REQUIREMENTS, TO NEW LOW VOLTAGE EQUIPMENT ROOM.
- PROVIDE NEW PLENUM RATED RG-6/U COAXIAL CABLEING FROM NEW CCTV CAMERA LOCATIONS SHOWN AND ROUTE TO CCTV SURVEILLANCE SYSTEM HEADEND LOCATION IN NEW LOW VOLTAGE EQUIPMENT ROOM.
- PROVIDE NEW PLENUM RATED WIRING TO ALL CARD READER/CARD ACCESS DEVICE LOCATIONS SHOWN AND ROUTE TO CARD READER HEADEND LOCATION IN NEW LOW VOLTAGE EQUIPMENT ROOM.
- PROVIDE #6 AWG GREEN JACKETED COPPER GROUND WIRE BETWEEN THE TELECOMMUNICATIONS GROUNDING BUSBAR (MGB OR TGB) PROVIDED BY ELECTRICAL CONTRACTOR AND EACH COMMUNICATIONS RACK AND MAKE GROUNDING CONNECTION. REFER TO TECHNOLOGY DETAILS ON THIS SHEET AND DIVISION 27 SPECIFICATIONS.

PLAN NOTES

- RELOCATE EXISTING NURSE CALL HEADEND SYSTEM TO NEW LOW VOLTAGE ROOM 237. EXTEND ALL EXISTING CABLEING AND INTEGRATE NEW NURSE CALL DEVICES AND ASSOCIATED CABLEING TO RELOCATED EXISTING NURSE CALL HEADEND SYSTEM.
- NEW LOW VOLTAGE ROOM FOR EXISTING EXPANDED NURSE CALL, CCTV, AND CARD ACCESS HEADEND EQUIPMENT AND CABLE TERMINATION.
- NEW TELECOMMUNICATIONS ROOM FOR TERMINATION OF CATEGORY 6 HORIZONTAL CABLEING AND COPPER/FIBER BACKBONE CABLEING TERMINATIONS. REFER TO ENLARGED FLOOR PLAN FOR ADDITIONAL INFORMATION.
- NO WORK IN THIS AREA MAINTAIN EXISTING TECHNOLOGY UNLESS NOTED OTHERWISE.
- CABLE TRAY ABOVE ACCESSIBLE CEILING PROVIDED BY ELECTRICAL FOR ROUTING LOW VOLTAGE CABLEING. COORDINATE WITH ALL TRADES PRIOR TO CABLE INSTALLATION.
- COMBINATION VOICE/DATA CATEGORY 6 CABLEING, DEVICE COMMUNICATIONS OUTLET AT LOCATION SHOWN AND ROUTE TO TELECOMMUNICATIONS ROOM (TR) ON SAME FLOOR. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT TO EXISTING CABLE TRAY FROM DEVICE.
- PROVIDE ONE (1) CATEGORY 5e CABLE TO CEILING MOUNTED WIRELESS ACCESS POINT OUTLET LOCATION SHOWN FOR CONNECTION TO FUTURE WIRELESS ACCESS POINT AND ROUTE TO TELECOMMUNICATIONS ROOM (TR) ON SAME FLOOR. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT TO EXISTING CABLE TRAY FROM DEVICE. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT TO EXISTING CABLE TRAY FROM DEVICE.
- PROVIDE ONE (1) RG-6/U CABLE, BNC CONNECTOR AND FIXED ANALOG CCTV CAMERA AT LOCATION SHOWN. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT TO EXISTING CABLE TRAY FROM DEVICE.
- PROVIDE ONE (1) RG-6/U COAXIAL CABLE, F-TYPE CONNECTOR AND TELEVISION LCD MONITOR AT TV OUTLET TO LOCATION SHOWN. ELECTRICAL CONTRACTOR TO PROVIDE 3/4" CONDUIT TO EXISTING CABLE TRAY FROM DEVICE.
- PROVIDE LOW AUDIO/VISUAL OUTLET WITH HDMI, VGA, C-VIDEO, AUDIO L/R CABLES ROUTED TO TV OUTLET FOR CONNECTION OF OWNER EQUIPMENT TO TV MONITOR. ELECTRICAL CONTRACTOR TO PROVIDE (2) 1" CONDUITS TO EXISTING CABLE TRAY FROM DEVICE.
- PROVIDE NEW CEILING MOUNTED FIRE ALARM SPEAKER/INTERCOM (PAGING) SPEAKER (SPEAKER BY DIVISION 28) AND TIE INTO EXISTING FIRE ALARM AND INTERCOM (PAGING) SYSTEMS. REFER TO SPECIFICATIONS AND ELECTRICAL DETAILS FOR FURTHER INFORMATION.
- PROVIDE NURSE CALL MASTER STATION AT LOCATION SHOWN AND ROUTE CABLEING TO NURSE CALL HEADEND IN LOW VOLTAGE EQUIPMENT ROOM AND TERMINATE.
- PROVIDE NURSE CALL DUTY STATION AT LOCATION SHOWN AND ROUTE CABLEING TO NURSE CALL HEADEND IN LOW VOLTAGE EQUIPMENT ROOM AND TERMINATE.
- PROVIDE NURSE CALL PULL-STATION AT LOCATION SHOWN AND ROUTE CABLEING TO NURSE CALL HEADEND IN LOW VOLTAGE EQUIPMENT ROOM AND TERMINATE.
- PROVIDE NURSE CALL DOME LIGHT ABOVE DOOR AT LOCATION SHOWN AND ROUTE CABLEING TO NURSE CALL HEADEND IN LOW VOLTAGE EQUIPMENT ROOM AND TERMINATE.
- PROVIDE INTEGRATED DOOR MOUNTED STAND-ALONE BATTERY OPERATED CARD READER AT EACH DOOR LOCATION SHOWN THAT CONNECT VIA WIRELESS COMMUNICATION TO CARD ACCESS SYSTEM IN LOW VOLTAGE EQUIPMENT ROOM.
- PROVIDE PANIC BUTTON CONNECTED TO SECURITY SYSTEM AND INTEGRATED WITH CAMPUS-WIDE SECURITY SYSTEM TO SIGNAL MAIN SECURITY STATION IN ROOM 68.
- PROVIDE REMOTE MONITOR STATION FOR CCTV SURVEILLANCE SYSTEM AT LOCATION SHOWN.
- UNDER ALTERNATE AREA SHOWN IS TO REMAIN AS-IS. REFER TO DEMOLITION PLANS FOR EXISTING DEVICE LOCATIONS. RENEW ALL EXISTING SYSTEMS AND PROVIDE NEW DEVICES FOR DATA, TELEPHONE, SECURITY, AND NURSE CALL.
- UNDER ALTERNATE #4 PROVIDE ONLY WORK SHOWN IN DETAILS 2 AND 3 ON THIS SHEET.
- RETAIN EXISTING CARD READERS AND CARD ACCESS DEVICES FROM DEMOLITION AND REINSTALL AT LOCATION SHOWN.

100% CD SET



DEDUCT ALTERNATE 6
TELECOMMUNICATIONS PLAN - SECOND FLOOR
SCALE = 1/8"=1'-0"

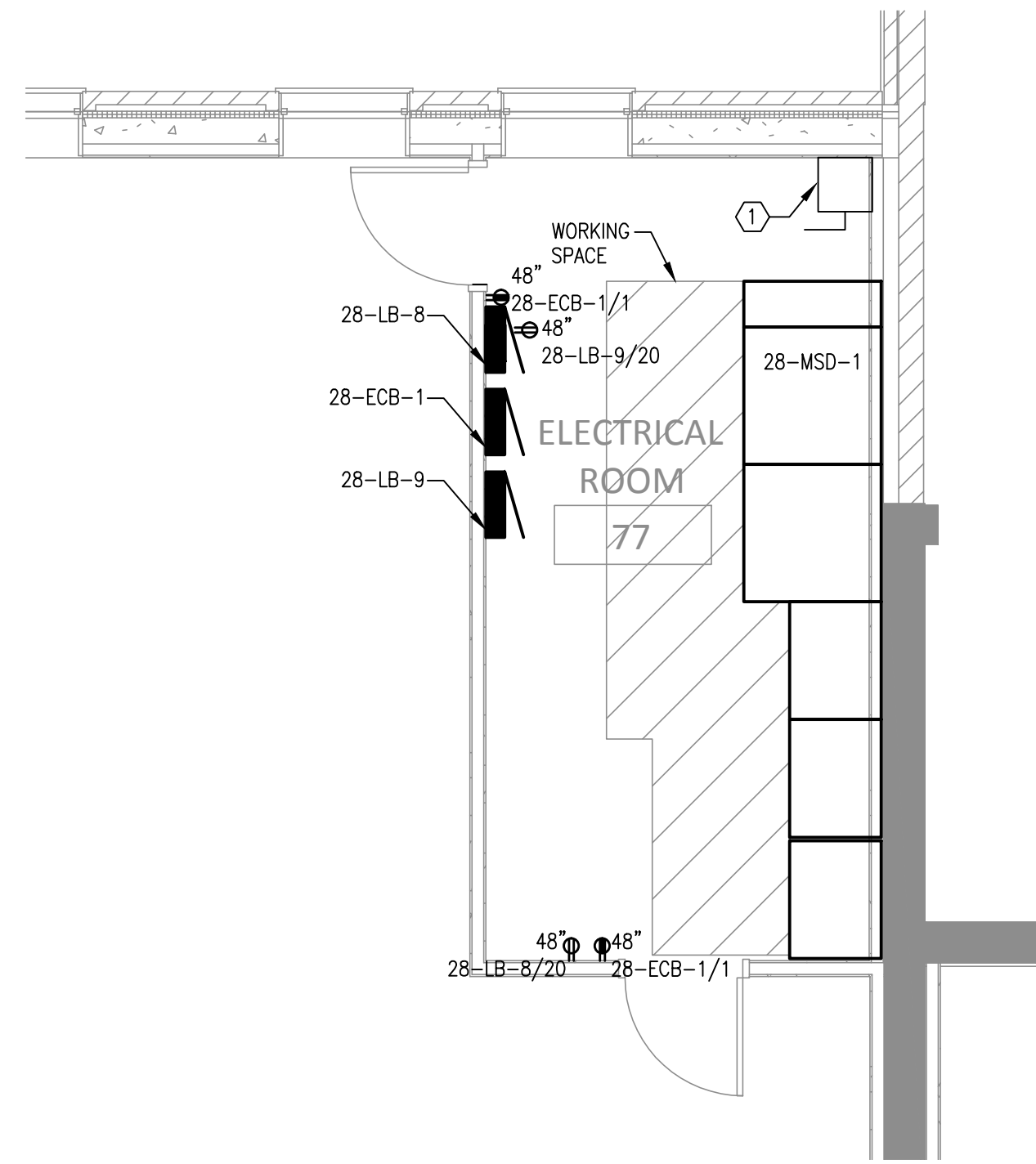
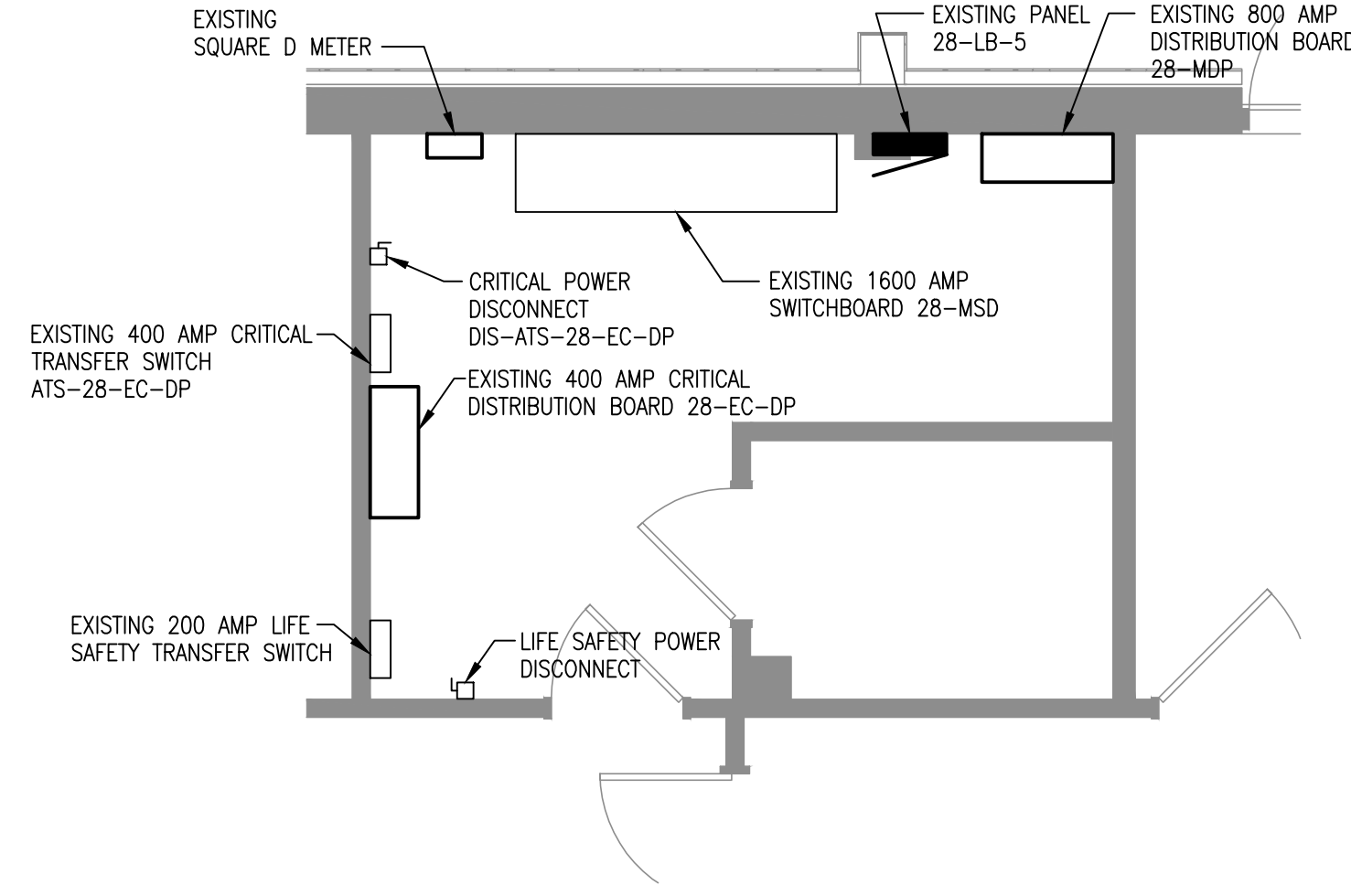
DEDUCT ALTERNATE 6
TELECOMMUNICATIONS PLAN - SECOND FLOOR
SCALE = 1/8"=1'-0"

TELECOMMUNICATIONS PLAN - SECOND FLOOR
SCALE = 1/8"=1'-0"

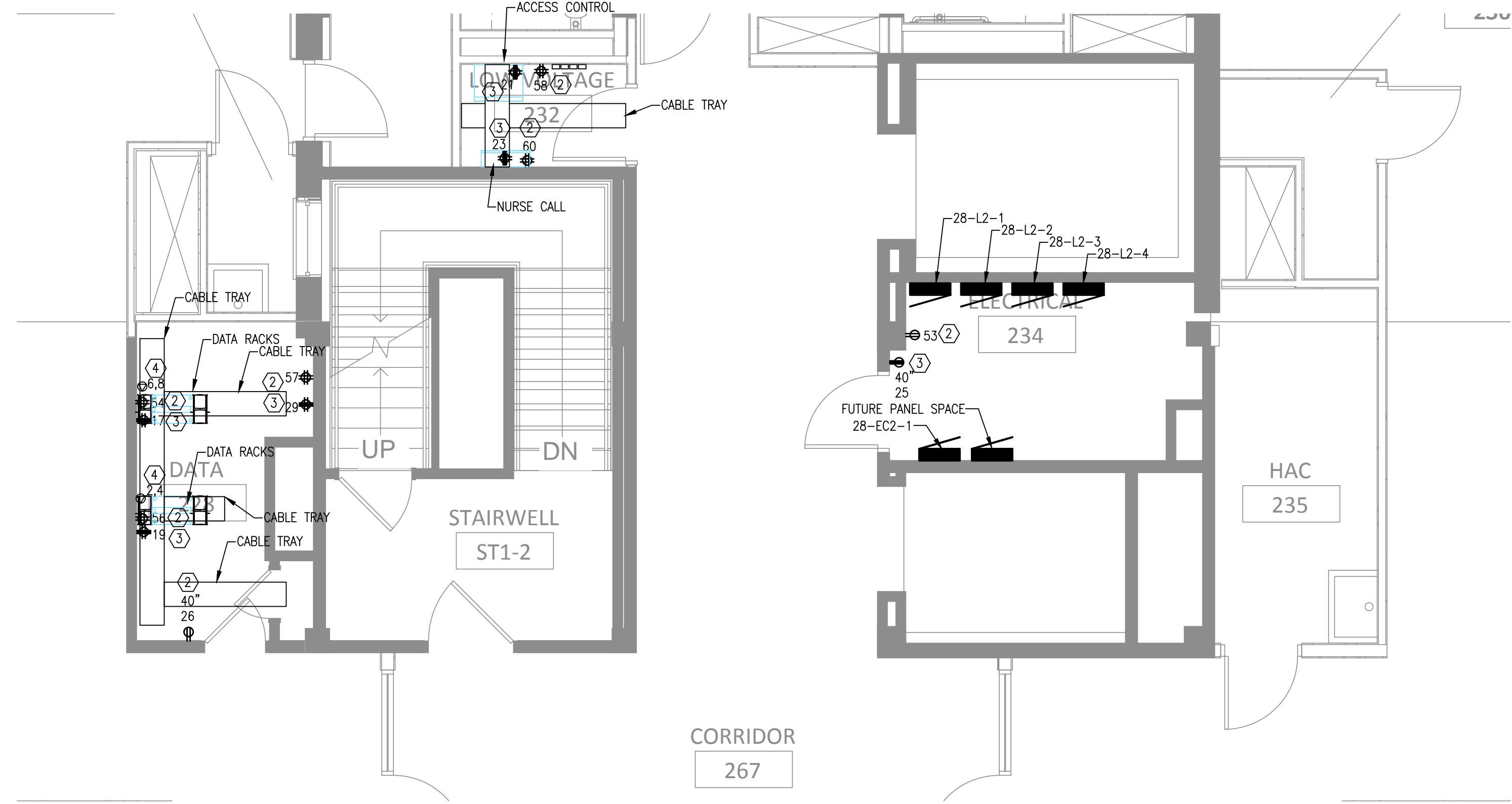
Design Tree ENGINEERING AND LAND SURVEYING Alexandria Office 120 17th Avenue W. Alexandria, MN 56308 (320) 762-1290 St. Cloud Office 3339 West St. Germain, Suite 250 St. Cloud, MN 56301 (320) 217-5557		JLC architects Alexandria 225 Broadway Street Alexandria, MN 56308 phone 320.759.9030 facsimile 320.759.9032 www.jlarchitects.com copyright © 2013 DTE 02212001	STAMP/SEAL I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. DATE: 12-20-2013 AARON MUELLER, PE REG. NO.	DRAWING TITLE TELECOMMUNICATIONS PLAN - SECOND FLOOR APPROVED: PROJECT DIRECTOR DATE:	PROJECT TITLE RECONFIGURE/EXPAND BUILDINGS 28 & 9 RESIDENTIAL REHABILITATION TREATMENT PROGRAM BIDDING NO. 28 ARM CAB/D/L LOCATION: ST. CLOUD VA MEDICAL CENTER ST. CLOUD, MN 56303	DATE: 12-20-2013 NOTED PROJECT NO. 656-12-339 DRAWING NO. ET102	St. Cloud VA Health Care System Brainerd Montevideo Alexandria
--	--	---	---	--	---	--	--

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

- PLAN NOTES**
- 1 PROVIDE AN 400A/3P DISCONNECT FOR CRITICAL FEED FROM GENERATOR. REFER TO POWER RISER FOR ADDITIONAL INFORMATION.
 - 2 MAKE CONNECTION TO PANEL 28-L2-2.
 - 3 MAKE CONNECTION TO PANEL 28-EC2-1.
 - 4 CONNECT TO PANEL 28-L2-3.



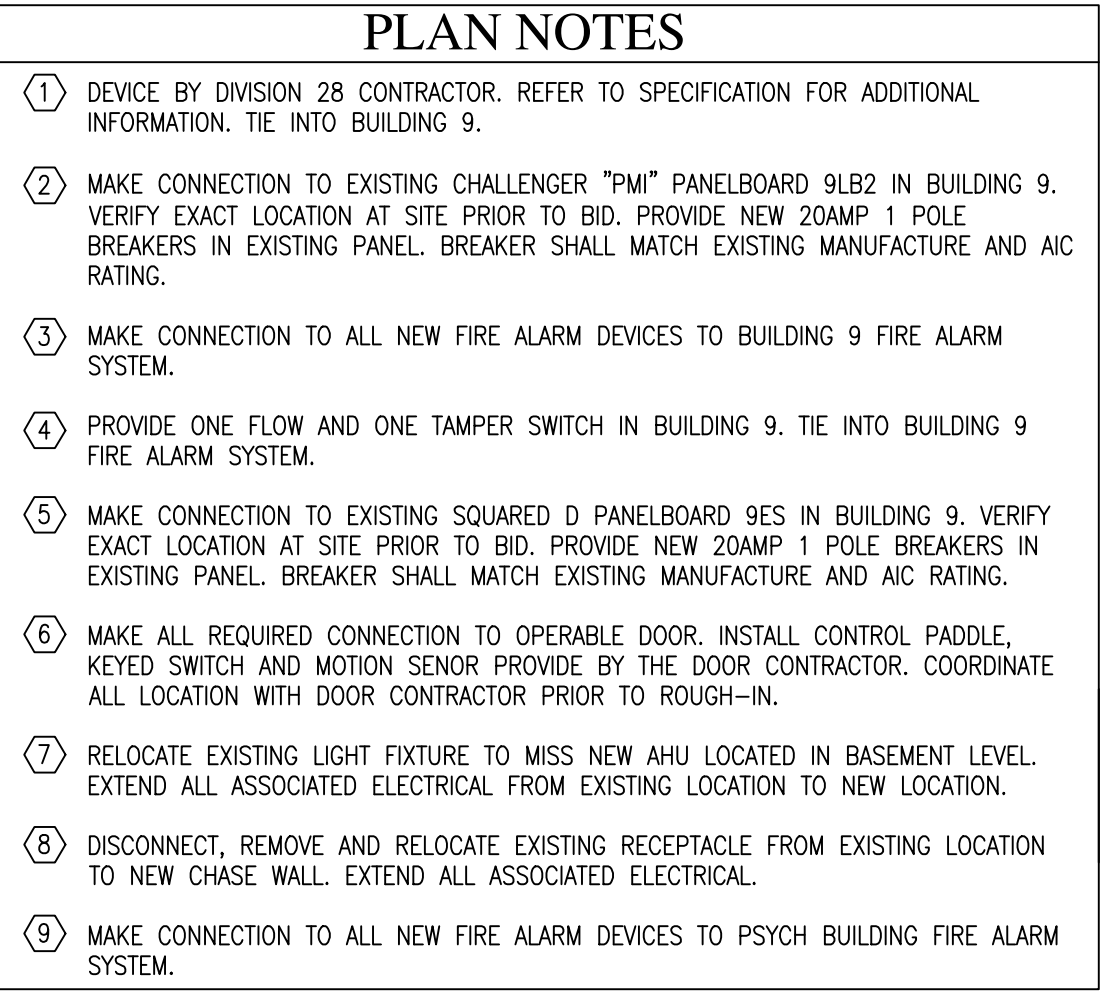
BASEMENT ENLARGED ELECTRICAL ROOMS
SCALE = 1/4"=1'-0"



SECOND FLOOR ENLARGED ELECTRICAL, DATA AND LOW VOLTAGE ROOMS
SCALE = 1/4"=1'-0"

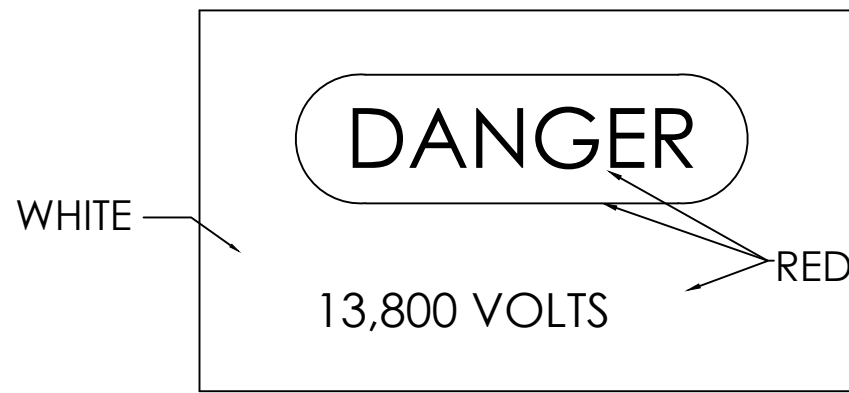
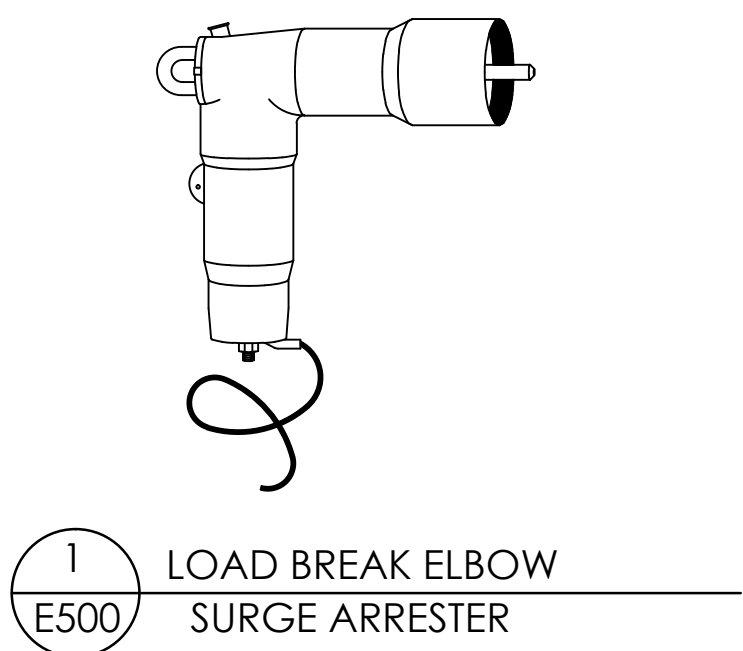
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-----------------	--	-------------	--	--	---	--	---	--	---	--	--	--	--



St. Cloud VA
Health Care System
 Brainerd | Montevideo | Alexandria

13.8 KV TRANSFORMER SCHEDULE							
NUMBER	TRANSFORMER (By Building)	TYPE	PRIMARY VOLTAGE	SECONDARY VOLTAGE	CONNECTION TYPE	RATING	REMARKS
TF-28	BUILDING 28	PAD	13.8 KV	120/208	DELTA-WYE	750KVA	



NOTE:
USE "DANGER" SIGNS ON ALL DUCTS, PULLBOXES, AND JUNCTION BOXES CONTAINING CONDUCTORS OPERATING AT POTENTIALS OVER 600 VOLTS.
USE "WARNING" SIGNS ON EXTERIOR OF ALL ENCLOSURES CONTAINING CONDUCTORS OPERATING AT POTENTIALS UNDER 600 VOLTS.

STANDARD PROPORTIONS ALL DIMENSIONS IN INCHES					
SIGN SIZE		RED OVAL		WORD DANGER	
Min.	Height Width	Height	Width	Height	
3	1/2 x 5	1	7/16 x 4	1/4 23/32	

"DANGER" / "WARNING" SIGN

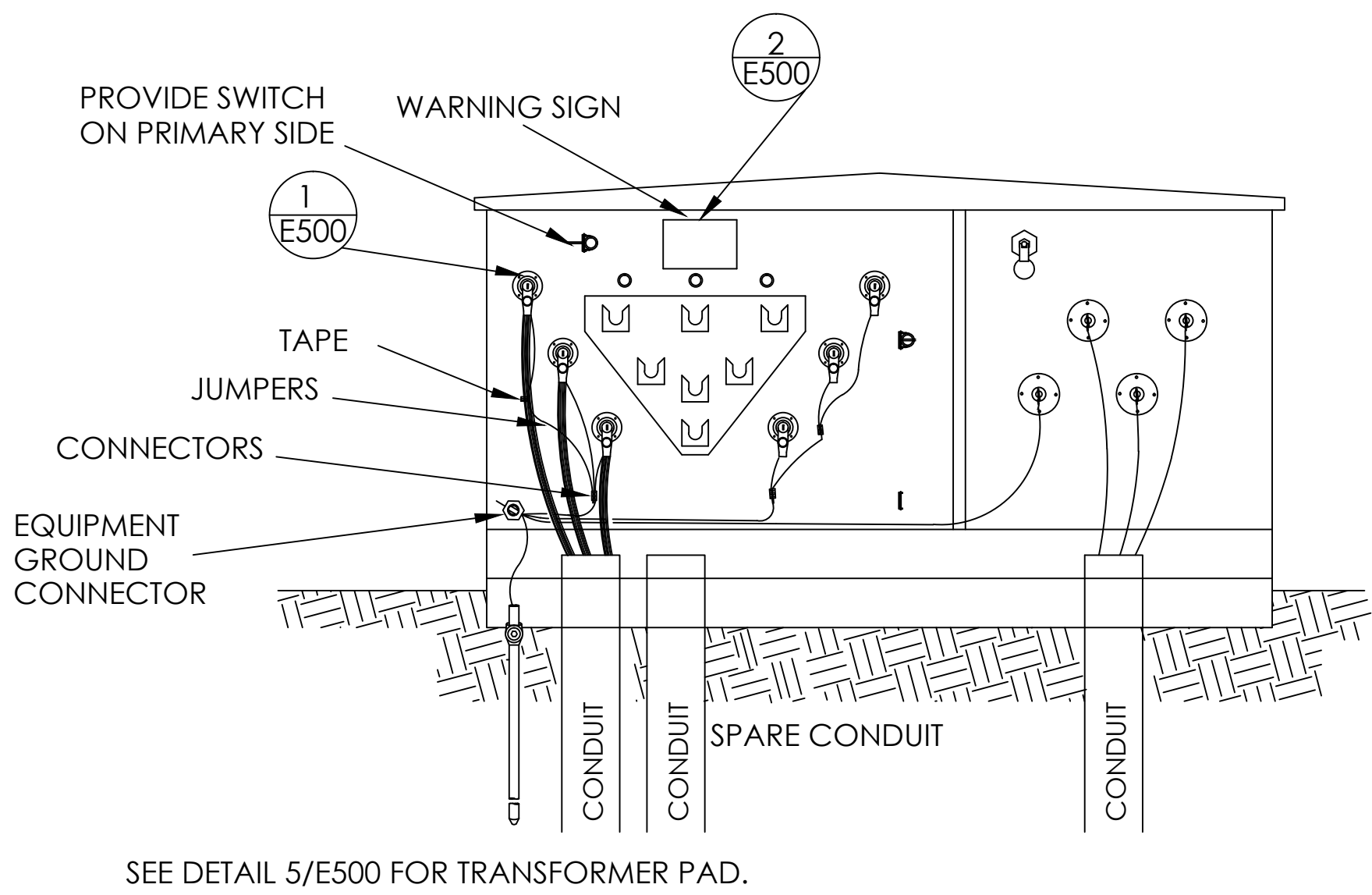


EQUIPMENT NAME

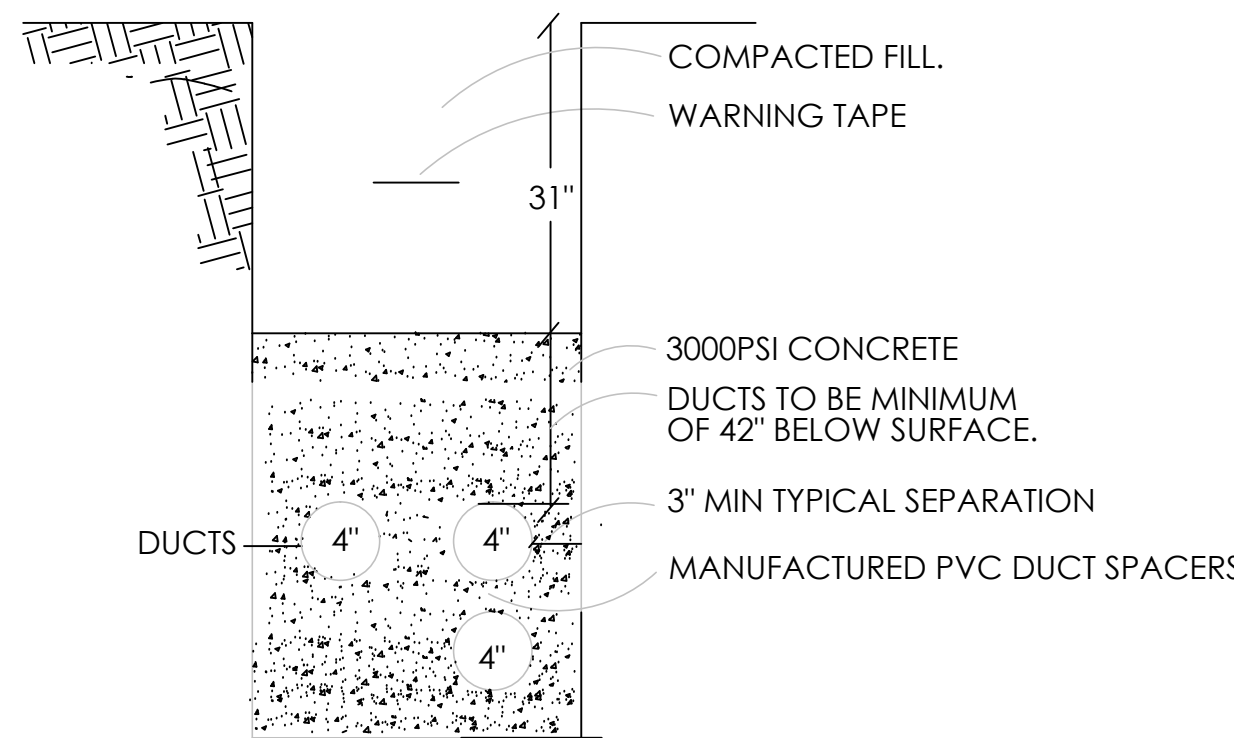
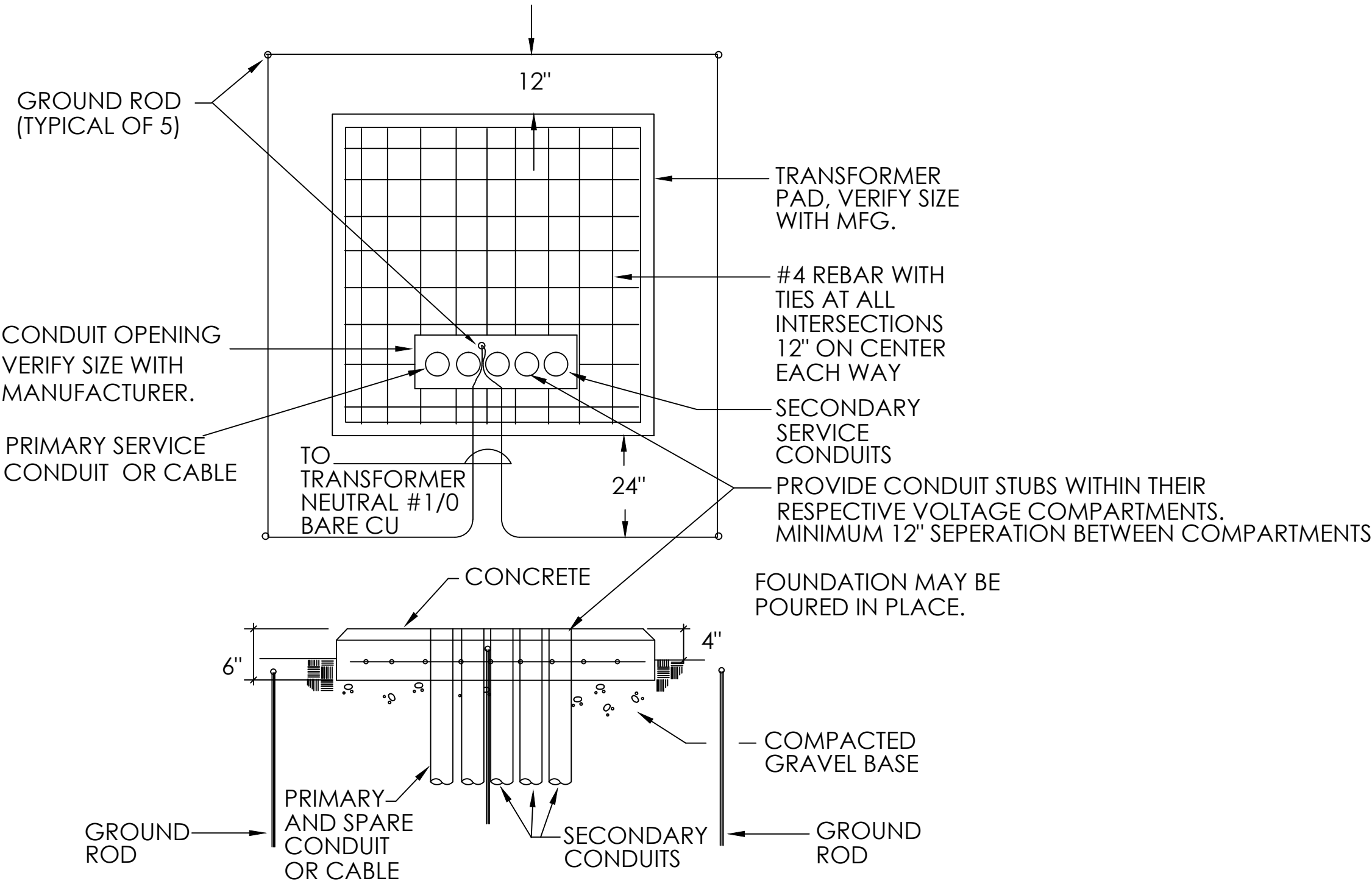
PRIMARY DISCONNECT LOCATION, SIZE/FUSE AND FEEDER SIZE(CONDUIT AND CONDUCTORS).
SECONDARY DISCONNECT LOCATION, SIZE/FUSE AND FEEDER SIZE(CONDUIT AND CONDUCTORS).
DATE, TRANSFORMER POWER FACTOR, TRANSFORMER SIZE IF FEED FROM TRANSFORMER
IF SERVICE RATED LABEL "SERVICE EQUIPMENT RATED".
AIC RATING.

NOTES:
USE "WARNING" SIGNS ON EXTERIOR OF ALL ENCLOSURES CONTAINING CONDUCTORS OPERATING AT POTENTIALS UNDER 600 VOLTS.
THE ABOVE LABELING IS MINIMUM REQUIRED ALSO ADD ALL LABELING PER NEC.

LABEL SHALL BE ATTACHED TO THE FRONT OF EQUIPMENT WITH BOLTS OR RIVETS.

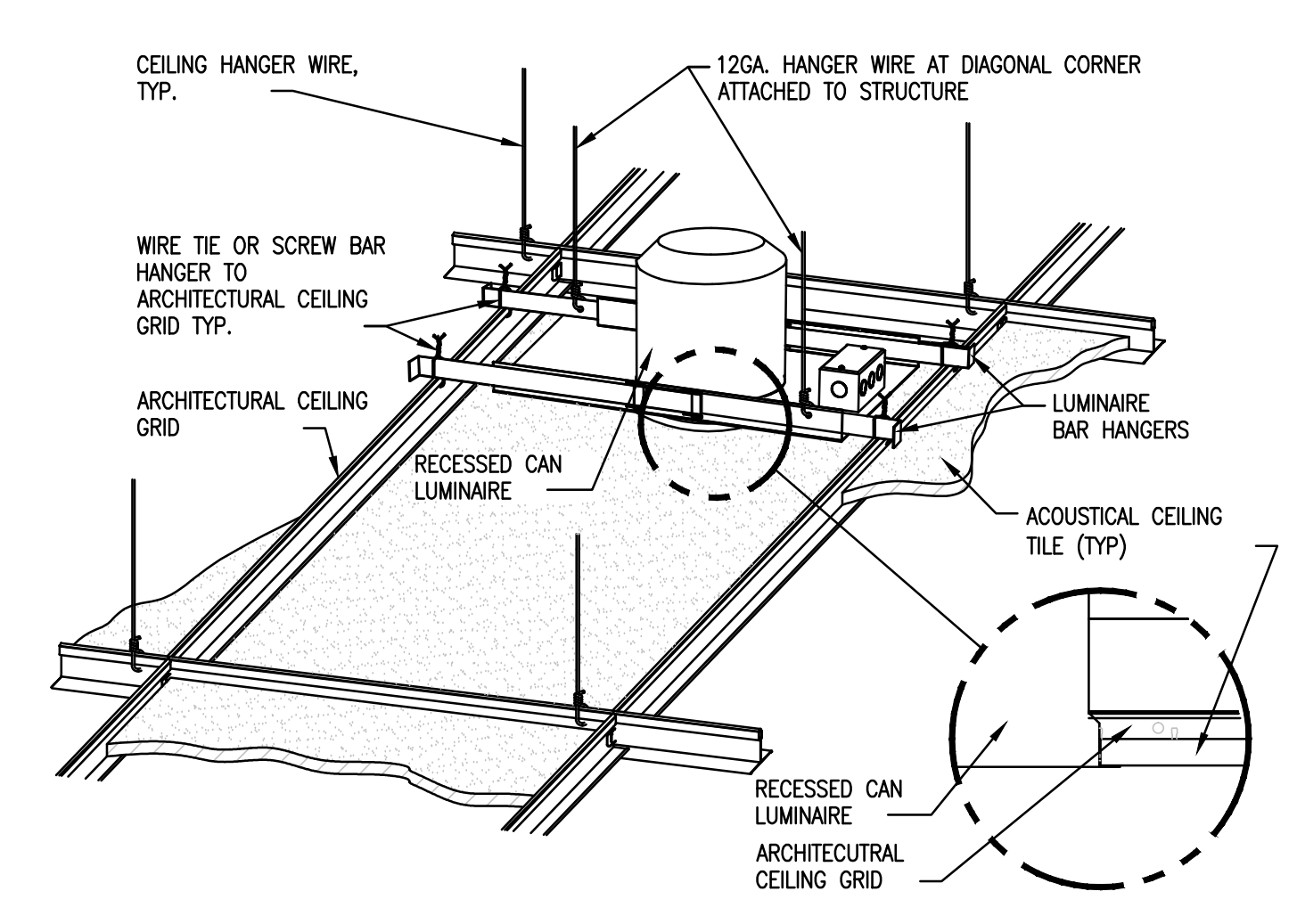


TRANSFORMER BY CONTRACTOR.
INCLUDING FEATURES:
ADJUSTABLE TAP SETTINGS.
BAYONET FUSES
PRIMARY ROTARY SWITCH (OIL COMPARTMENT)
OIL SAMPLE PORT ON SECONDARY SIDE
LOCKABLE DOOR
SEE SPECIFICATIONS 26-12-19

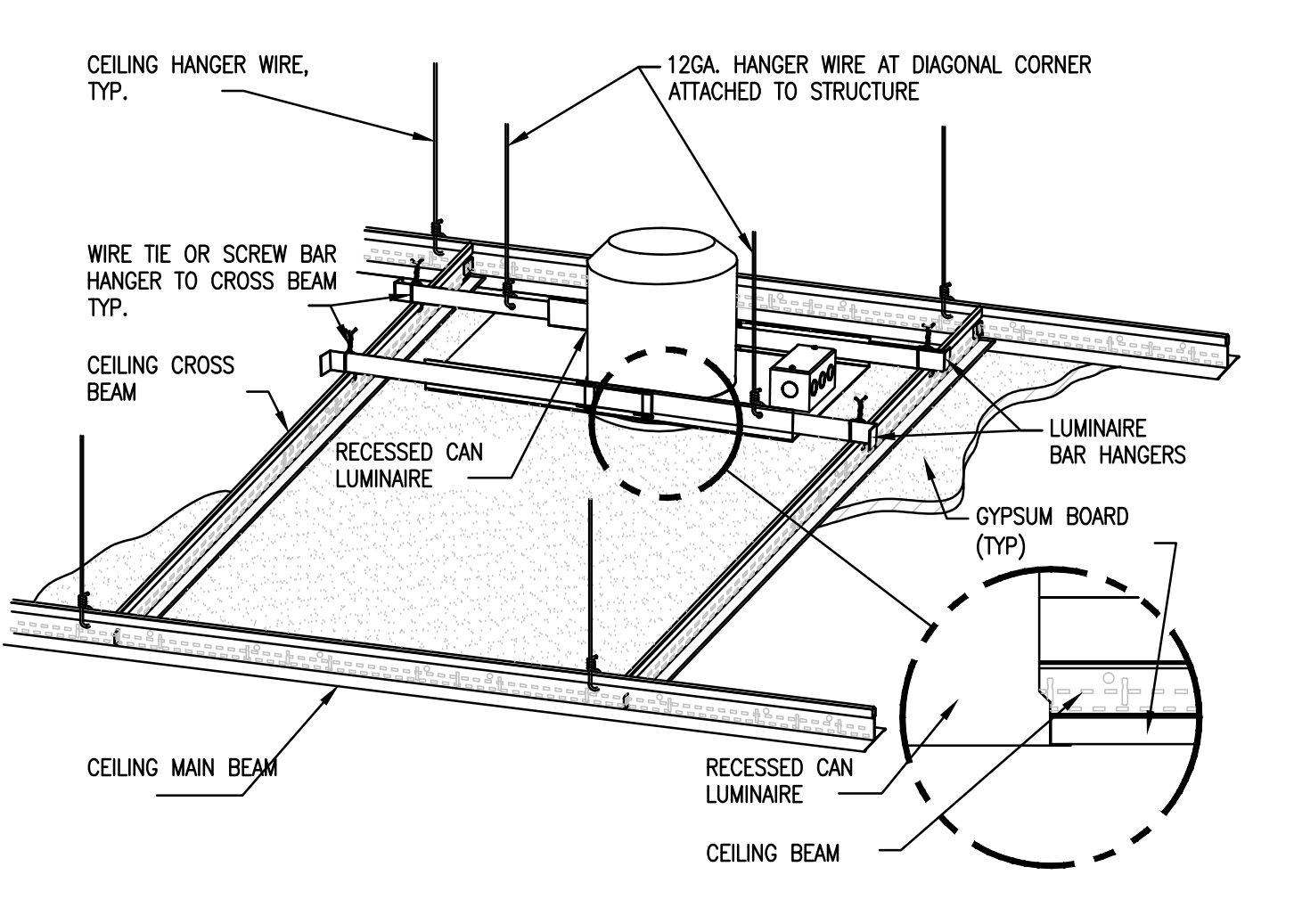


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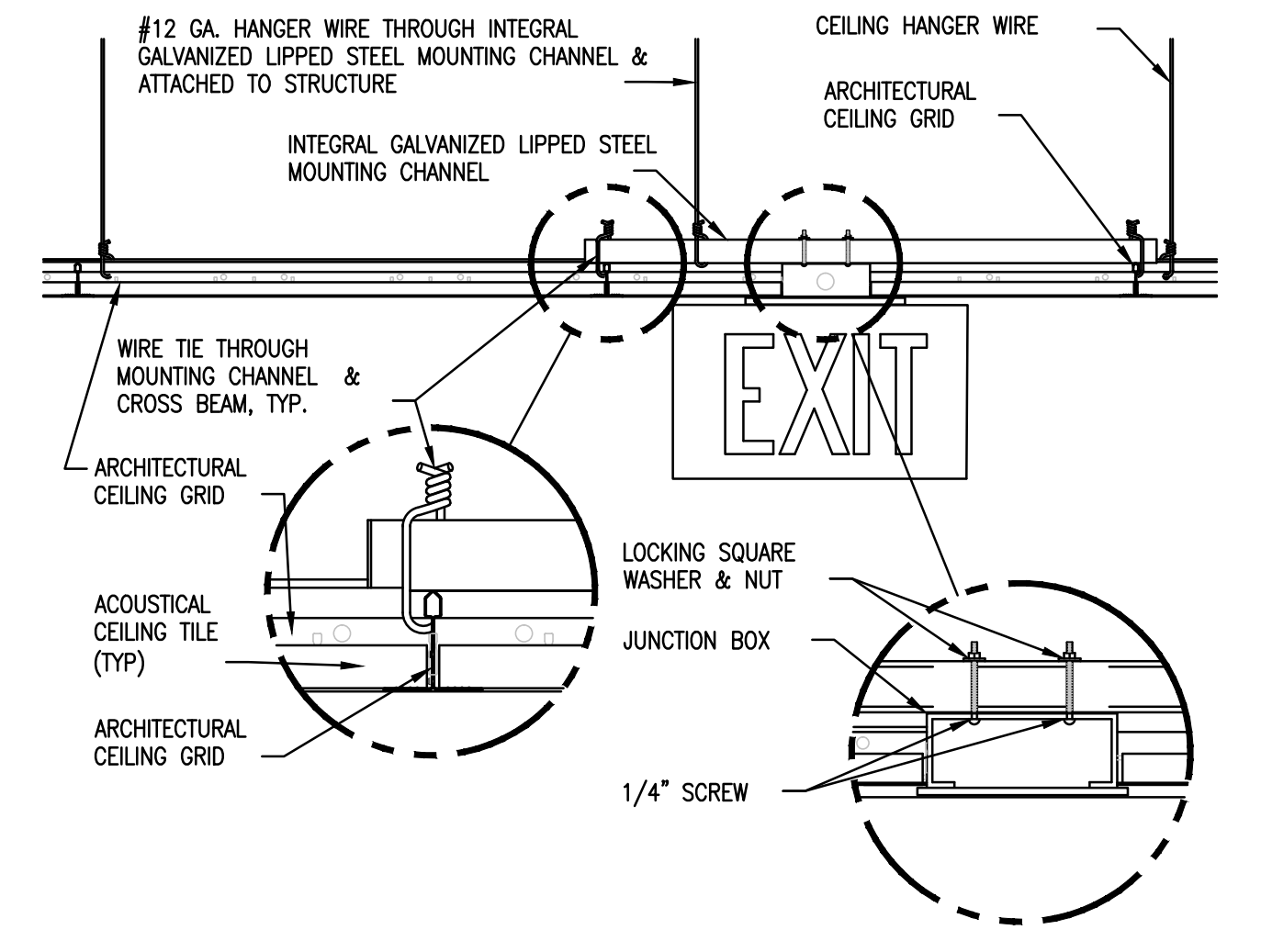
No		REVISION		DATE	
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St. Cloud Office 3339 West St. Germain, Suite 250 St. Cloud, MN 56301 (320) 217-5557		JLC architects		Alexandria 325 Broadway Street Alexandria, MN 56308 phone 320.759.9030 facsimile 320.759.9062 www.jlarchitects.com copyright © 2013	
DTE 02212001		STAMP/SEAL I HEREBY CERTIFY THAT THIS PLAN SPECIFICATION OR REPORT HAS BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. AARON E. MUELLER, PE DATE: 12-20-2013		MINNESOTA REG. NO.	
DRAWING TITLE ELECTRICAL DETAILS		PROJECT TITLE RECONFIGURE/EXPAND BUILDINGS 28 & 9 RESIDENTIAL REHABILITATION TREATMENT PROGRAM		DATE 12-20-2013 PROJECT NO. AS NOTED 656-12-339	
APPROVED: PROJECT DIRECTOR		DATE		DRAWING NO. E500	
LOCATION ST. CLOUD VA MEDICAL CENTER ST. CLOUD, MN 56303		DRAWING NO. E500		ST. Cloud VA Health Care System Brainerd Montevideo Alexandria	



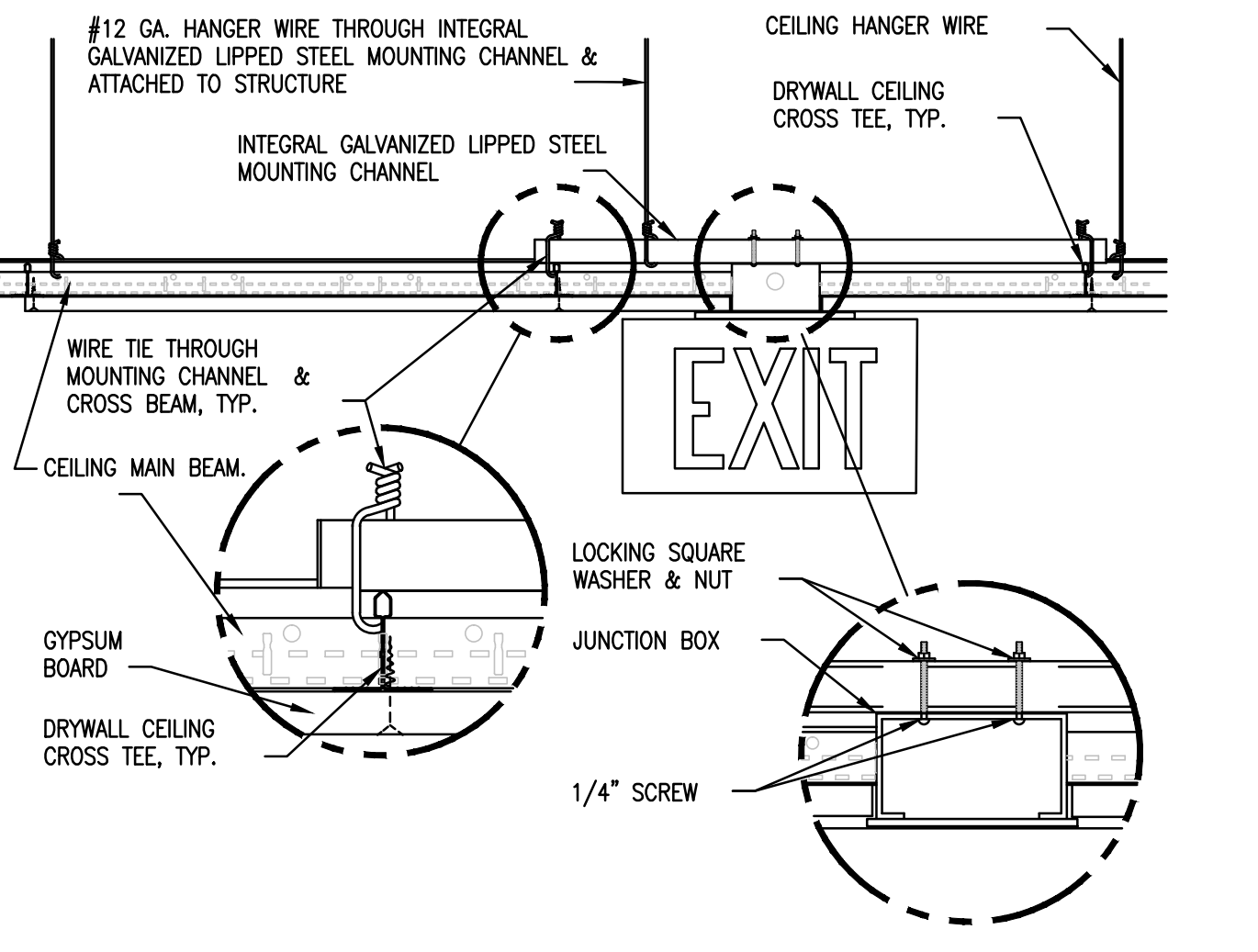
1 DOWNLIGHT MOUNTING - LAY-IN CEILING
E501 NTS



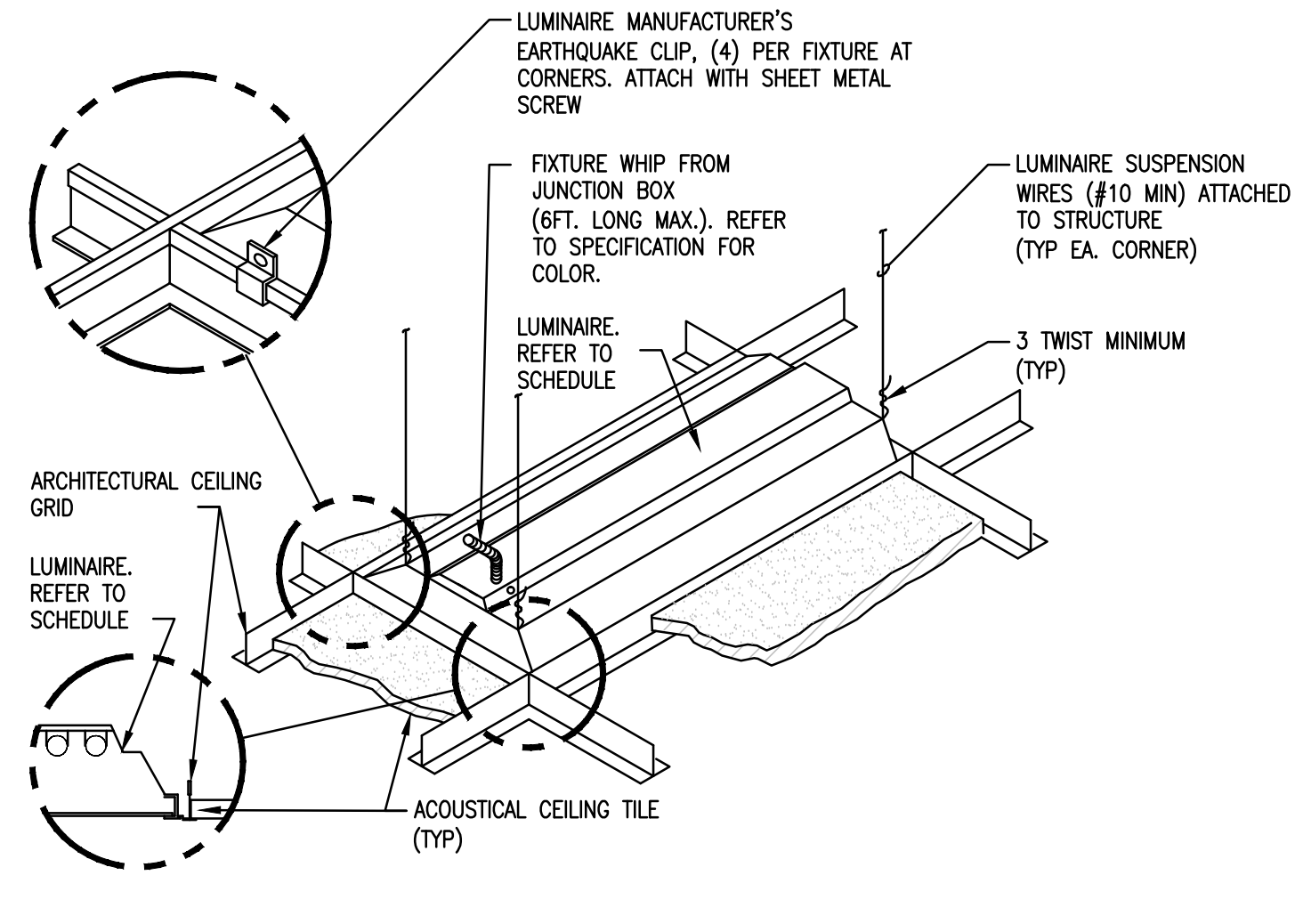
2 DOWNLIGHT MOUNTING - GYPSUM BOARD CEILING
E501 NTS



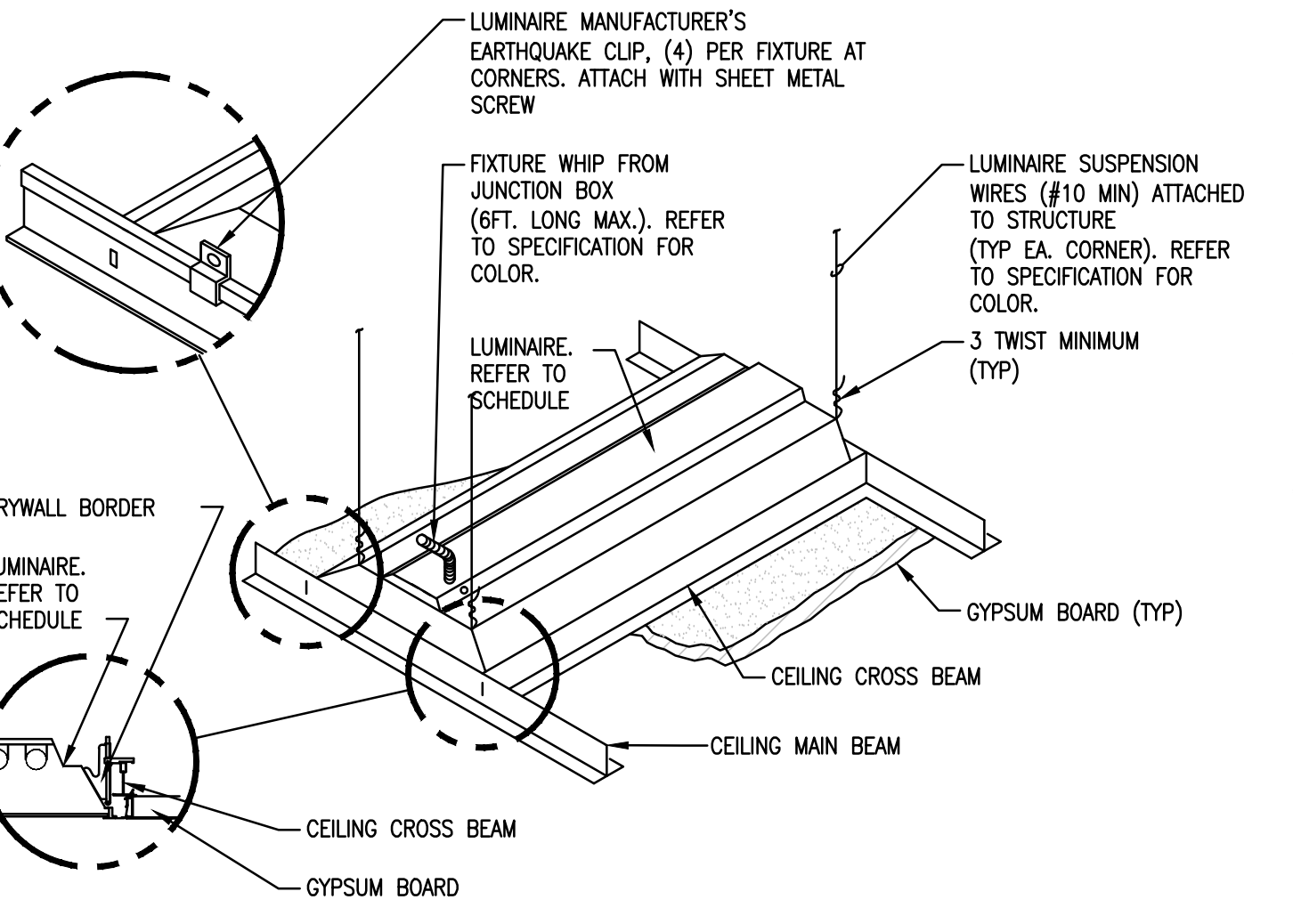
3 EXIT SIGN MOUNTING - LAY-IN CEILING
E501 NTS



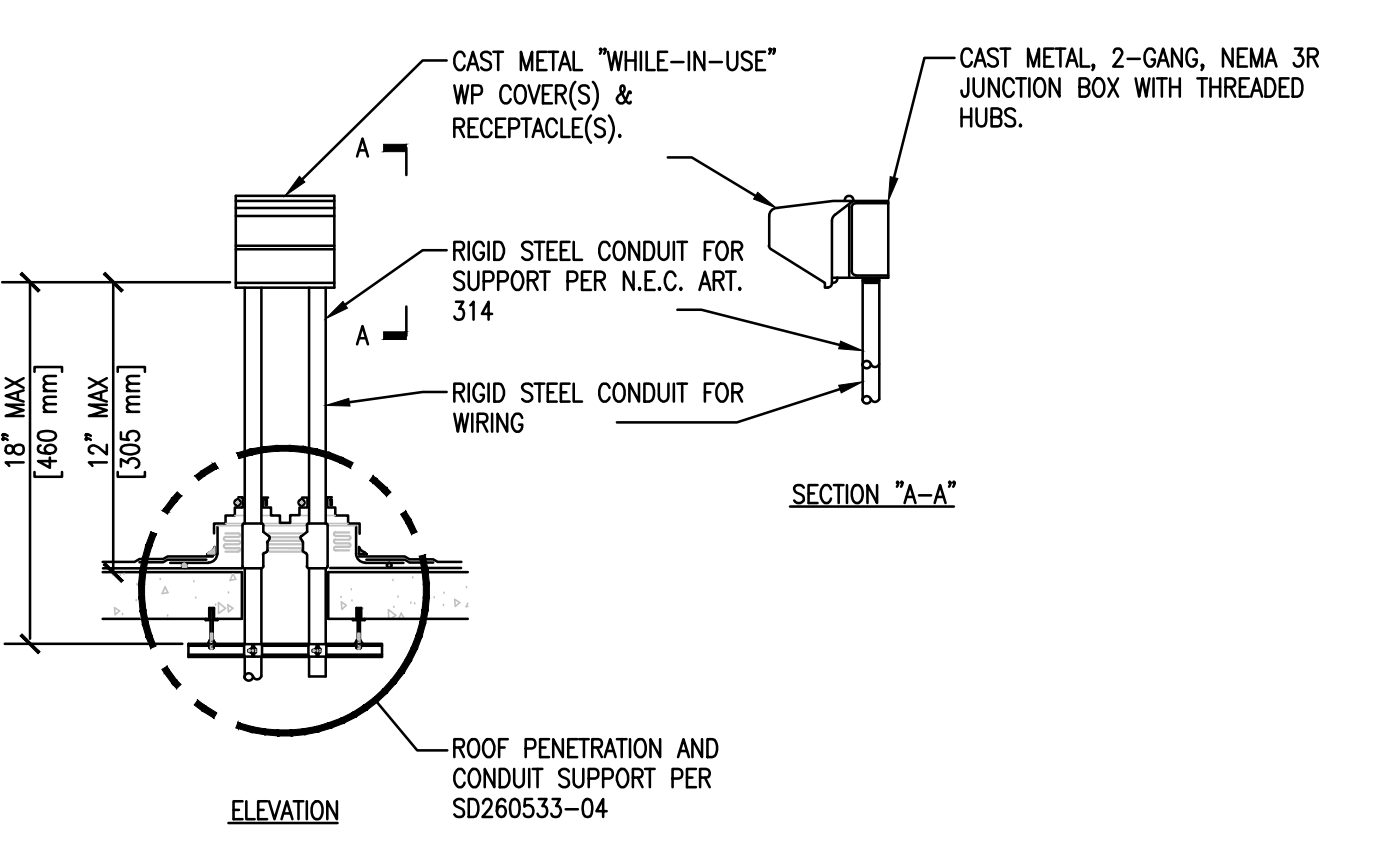
4 EXIT SIGN MOUNTING - GYPSUM BOARD CEILING
E501 NTS



5 LUMINAIRE MOUNTING - LAY-IN CEILING
E501 NTS



6 LUMINAIRE MOUNTING - GYPSUM BOARD CEILING
E501 NTS



7 RECEPTACLE ROOF MOUNTING DETAIL
E501 NTS

EQUIPMENT NAME(28-MSB-1)
PROVIDE THE FOLLOWING INFORMATION:
FEEDER SIZE(CONDUIT AND CONDUCTORS), (4) 3 1/2\"/>

NOTES:
PROVIDE SIGN(S) ON EXTERIOR OF ALL ENCLOSURES CONTAINING CONDUCTORS OPERATING AT POTENTIALS UNDER 600 VOLTS.
THE ABOVE LABELING IS MINIMUM REQUIRED. ALSO ADD ALL LABELING PER NEC.
LABEL SHALL BE ATTACHED TO THE FRONT OF EQUIPMENT SO IT'S IN SIGHT.
LABEL SHALL BE LAMINATED AND FASTENED TO THE EQUIPMENT WITH BOLTS OR RIVETS.

EQUIPMENT NAME (28-LB-8)
PROVIDE THE FOLLOWING INFORMATION:
PRIMARY DISCONNECT LOCATION, SIZE/FUSE AND FEEDER SIZE(CONDUIT AND CONDUCTORS).
DATE OF INSTALL.
IF SERVICE RATED LABEL \"SERVICE EQUIPMENT RATED\".
IF FED BY A TRANSFORMER ADD THE FOLLOWING: POWER FACTOR, TRANSFORMER SIZE (KVA), K RATING.
EXAMPLE:
PRIMARY DISCONNECT LOCATION SWBD-1 IN ROOM 12, 200A-3P F@200A, 2\"/>

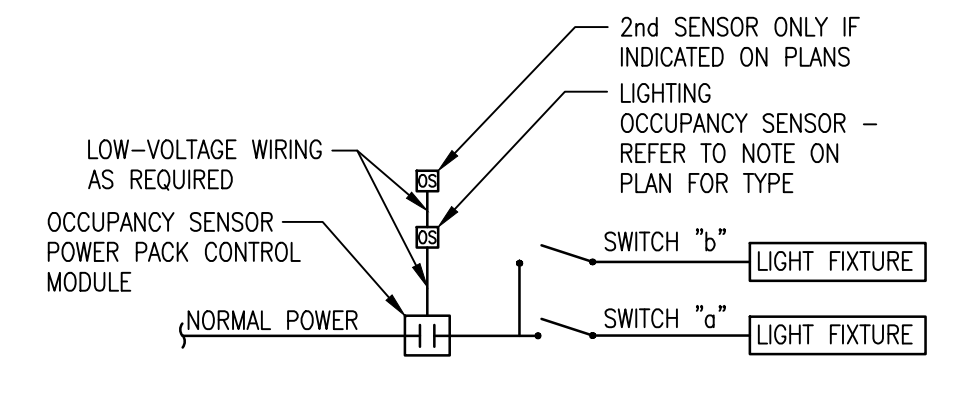
NOTES:
PROVIDE SIGN(S) ON EXTERIOR OF ALL ENCLOSURES CONTAINING CONDUCTORS OPERATING AT POTENTIALS UNDER 600 VOLTS.
THE ABOVE LABELING IS MINIMUM REQUIRED. ALSO ADD ALL LABELING PER NEC.
LABEL SHALL BE ATTACHED TO THE FRONT OF EQUIPMENT SO IT'S IN SIGHT.
LABEL SHALL BE LAMINATED AND FASTENED TO THE EQUIPMENT WITH BOLTS OR RIVETS.

9 PANELBOARD LABEL
E501 NTS

EQUIPMENT NAME (ATS-28-EC-DP)
PROVIDE THE FOLLOWING INFORMATION:
PRIMARY DISCONNECT LOCATION, SIZE/FUSE AND FEEDER SIZE(CONDUIT AND CONDUCTORS).
SECONDARY FEEDER SIZE(CONDUIT AND CONDUCTORS) AND WHAT IT FEEDS AND LOCATION.
DATE OF INSTALL.
IF SERVICE RATED LABEL \"SERVICE EQUIPMENT RATED\".





NOTES:
PROVIDE SIGNS ON EXTERIOR OF ALL ENCLOSURES CONTAINING CONDUCTORS OPERATING AT POTENTIALS UNDER 600 VOLTS.
THE ABOVE LABELING IS MINIMUM REQUIRED. ALSO ADD ALL LABELING PER NEC.
LABEL SHALL BE ATTACHED TO THE FRONT OF EQUIPMENT SO IT'S IN SIGHT.
LABEL SHALL BE LAMINATED AND FASTENED TO THE EQUIPMENT WITH BOLTS OR RIVETS.

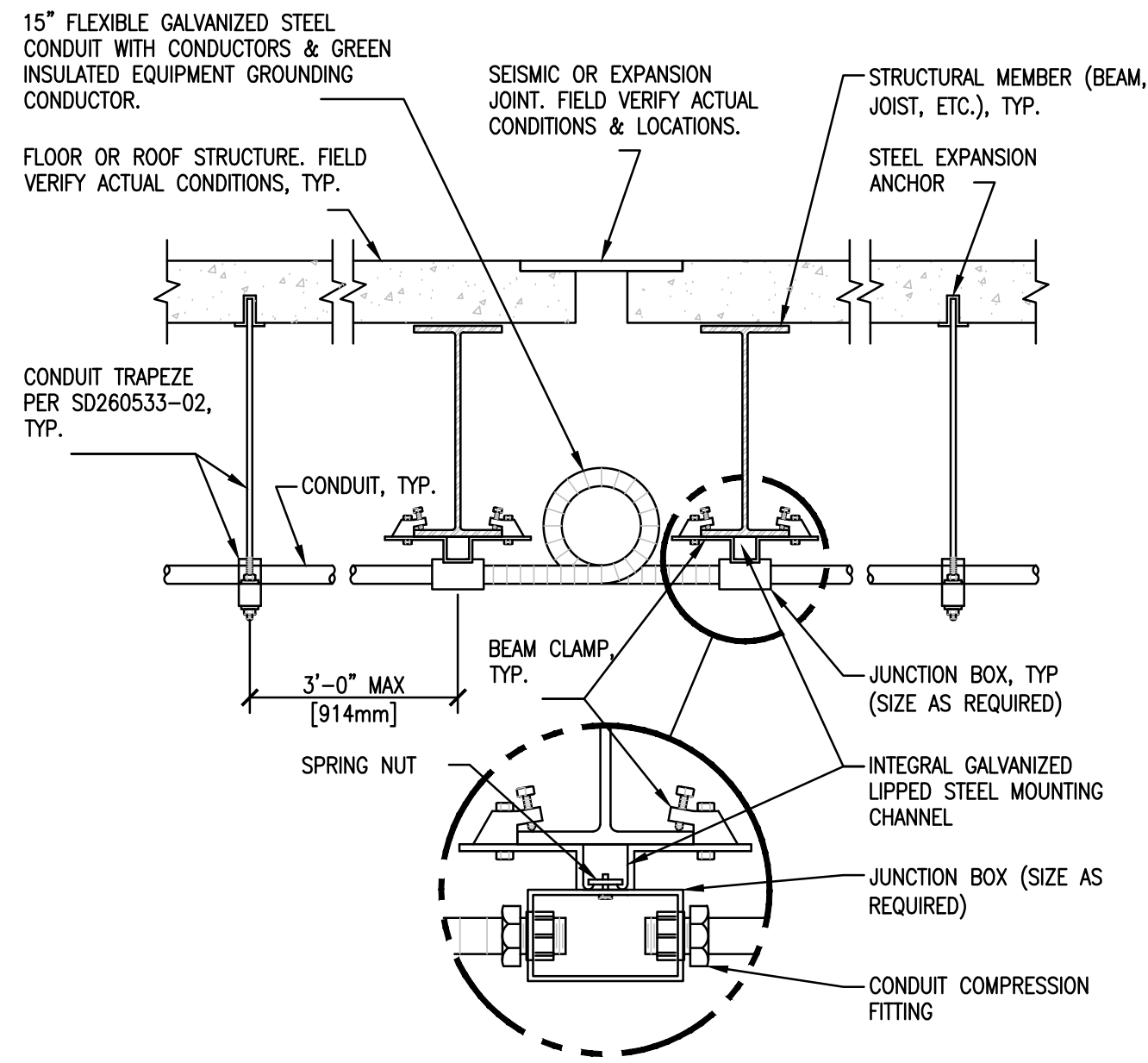
10 DISCONNECT LABEL
E501 NTS



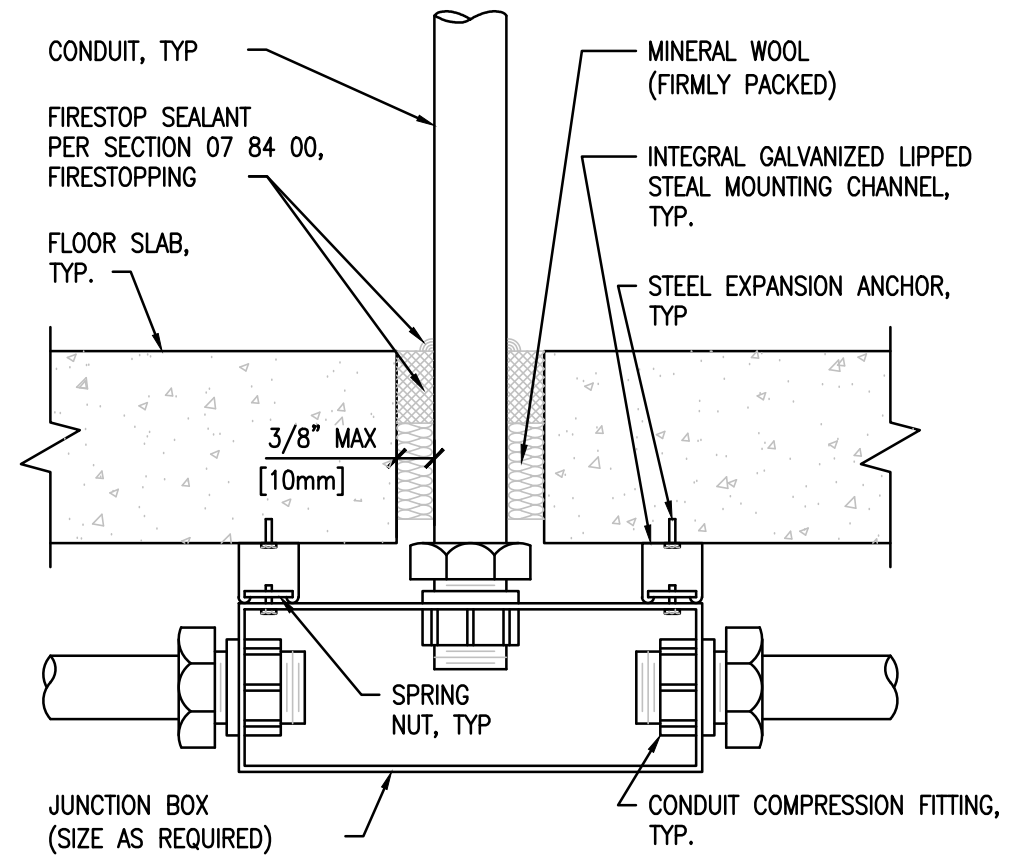
11 TYPICAL ROOM LIGHTING CONTROL DETAIL
E501 NTS

100% CD SET

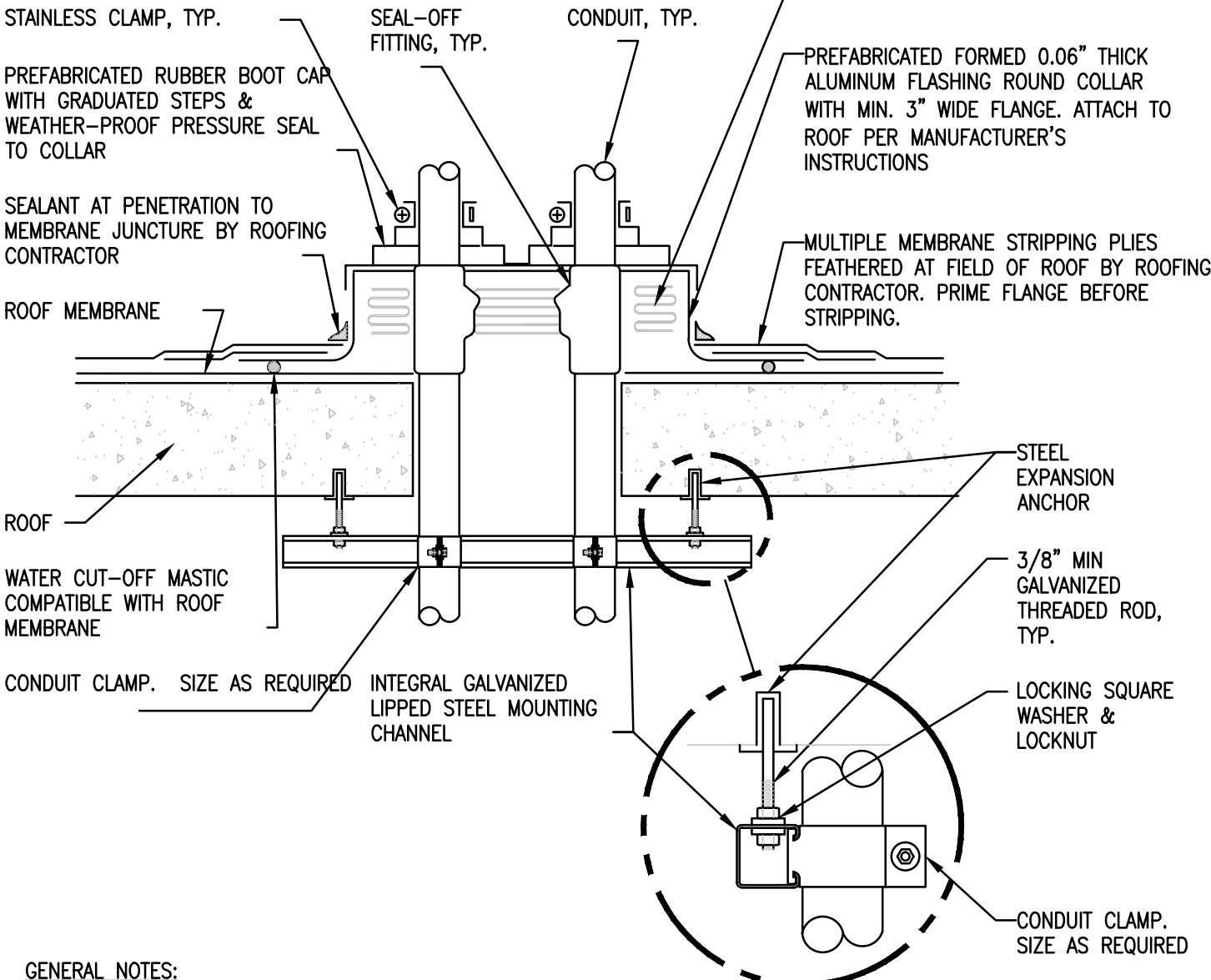
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				BUILDING No. 28	DESIGNED BY ARM								



1
E502
NTS
CONDUIT JOINT CROSSING DETAIL

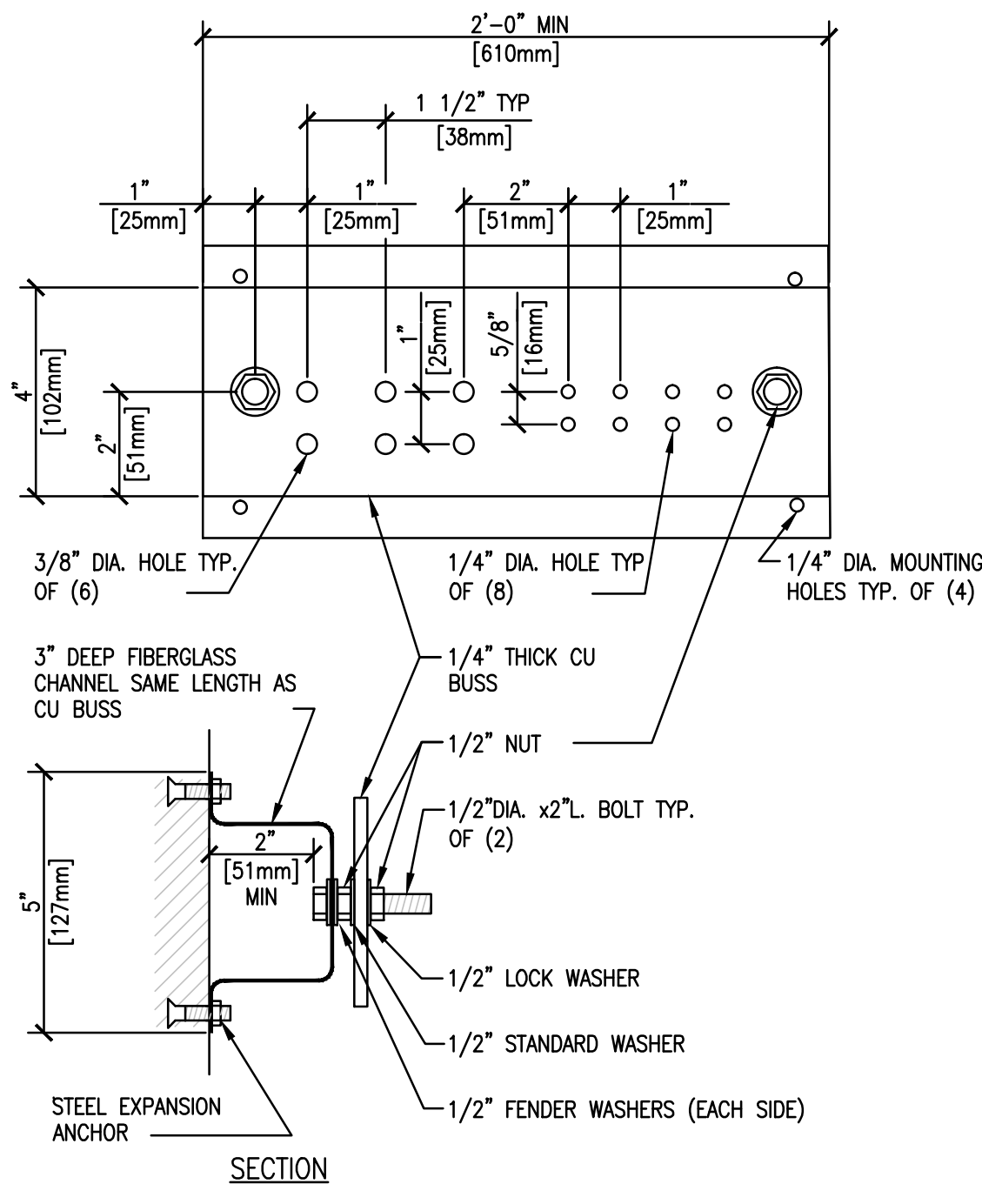


2
E502
NTS
FLOOR SLAB PENETRATION DETAIL

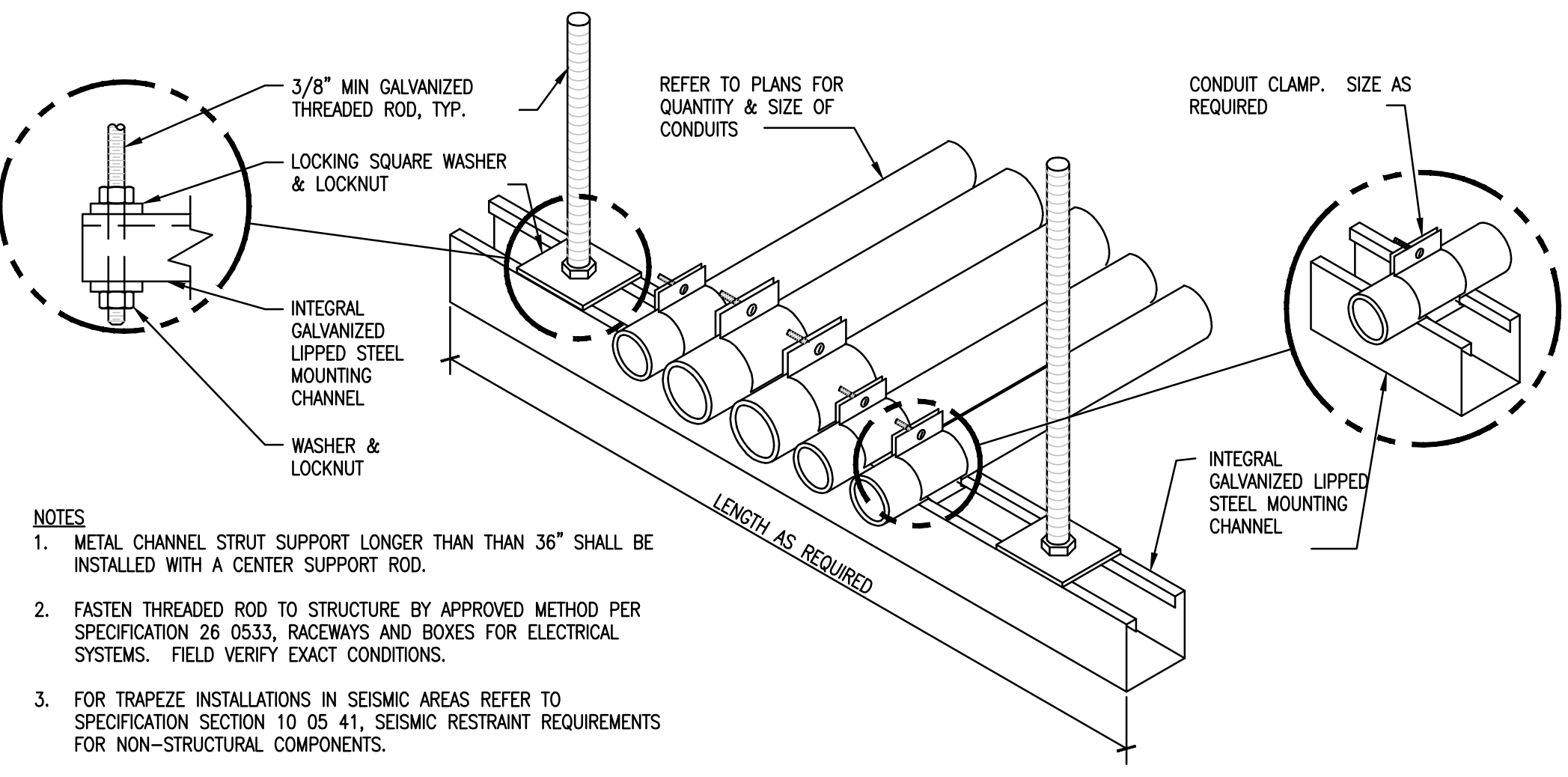


- GENERAL NOTES:
1. MAINTAIN A MINIMUM CLEARANCE OF 12" [308mm] ON ALL SIDES OF ROOF PENETRATION FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.
 2. FLANGES OF ADJACENT FLASHINGS SHALL NOT BE CUT OR OVERLAPPED.
 3. VERIFY ROOF & STRUCTURAL SYSTEM WITH ARCHITECT.
 4. COORDINATE FLASHING INSTALLATION WITH ROOFING CONTRACTOR TO ENSURE PROPER METHODS & MATERIALS ARE USED TO MAINTAIN ROOF WARRANTY.

3
E502
NTS
ROOF PENETRATION DETAIL

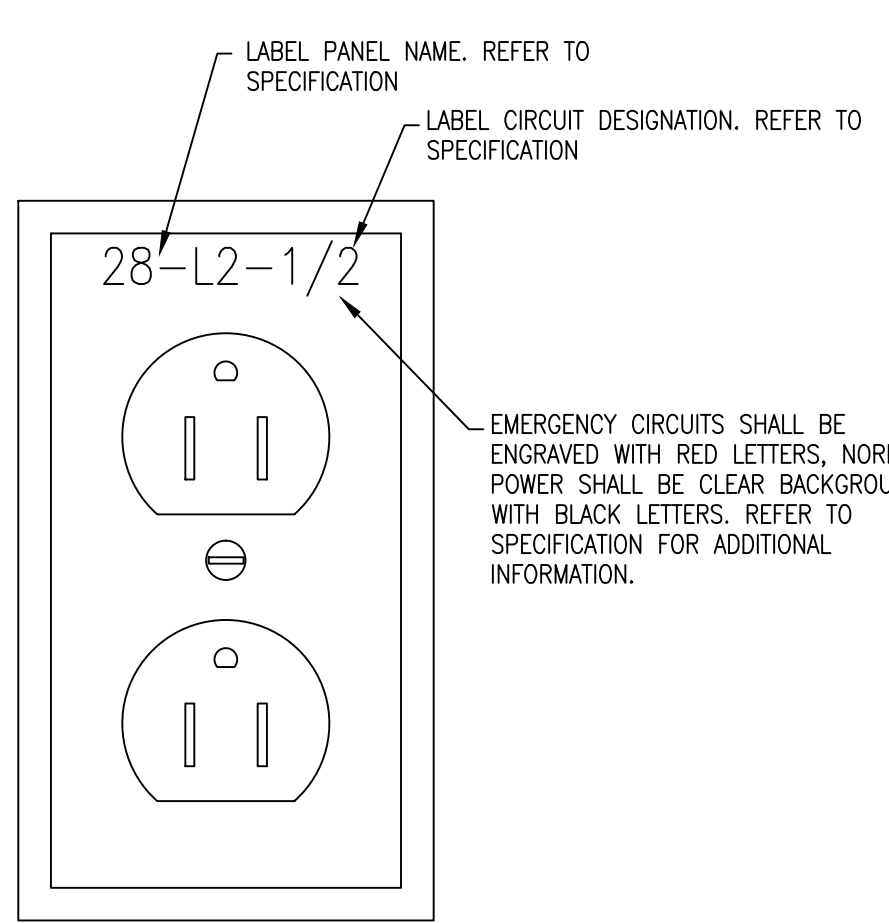


4
E502
NTS
GROUNDING BAR DETAIL



- NOTES:
1. METAL CHANNEL STRUT SUPPORT LONGER THAN 36" SHALL BE INSTALLED WITH A CENTER SUPPORT ROD.
 2. FASTEN THREADED ROD TO STRUCTURE BY APPROVED METHOD PER SPECIFICATION 26 0533, RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS. FIELD VERIFY EXACT CONDITIONS.
 3. FOR TRAPEZE INSTALLATIONS IN SEISMIC AREAS REFER TO SPECIFICATION SECTION 10 05 41, SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.

5
E502
NTS
CONDUIT TRAPEZE MOUNTING DETAIL



6
E502
NTS
TYPICAL RECEPTACLE LABELING DETAIL

REPLACEMENT AND PROPOSED OUTAGE SCHEDULE					
NUMBER	ANTICIPATED LENGTH OF WORK	WORK PERIOD	REMARKS	BUILDING	MAXIMUM DE-ENERGIZED INTERUPTION
ATS-28-CP	8 HOURS	AFTER HOURS	TEMPORARY JUMPERS REQUIRED	28 AND GENERATOR	MOMENTARY
TEMP. SERVICE	8 HOURS	AFTER HOURS		28	8 HOURS
NEW SERVICE	8 HOURS	AFTER HOURS		28	8 HOURS

"MOMENTARY" DE-ENERGIZED INTERUPTION IS TO BE LIMITED ONLY TO THE LENGTH OF TIME NECESSARY (30 MINUTES ONLY) TO MAKE FINAL ELECTRICAL CONNECTIONS AND/OR TO MAKE TEMPORARY CONNECTIONS. CONTRACTOR TO SUBMIT WORK PLAN AND ESTIMATED TOTAL DE-ENERGIZED TIME TO THE OWNER AND ENGINEER FOR REVIEW AND APPROVAL.

FOR ALL ATS TEMPORARY AND CONNECTION SHUT DOWNS ADVISE OWNER ON APPROXIMATELY THE LENGTH OF TIME FOR CONNECTION AT EACH ATS, GEAR, ETC AT LEAST TWO WEEK IN ADVANCE OF SHUT DOWN. PROVIDE A WRITTEN OPERATION SEQUENCE OF ALL WORK ASSOCIATED FOR EACH SHUT DOWN.

ANY WORK CONSIDERED "HOT WORK" SHALL REQUIRED SERVICE LINE AND HOSPITAL DIRECTOR APPROVAL. EXAMPLE: METERING 13,800 CABLES TO VERIFY DE-ENERGIZED.

AFTER MAY 15 AND BEFORE SEPTEMBER ALL SHUT DOWN SHALL BE ONLY 4 HR MAXIMUM.

VERIFY WITH OWNER DAY OF SCHEDULE SHUT DOWN IS OK TO PROCEED.

SCHEDULE COORDINATION MEETING FOR EACH SHUT DOWN TWO WEEKS PRIOR TO WORK BEING PERFORMED.

ON ALL BREAKS TO EXISTING LOOP SHALL BE MAXIMUM OF 8 HRS.



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120 17th Avenue W.
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3339 West St. Germain, Suite 250
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Alexandria, MN 56308
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AARON MUELLER, PE
DATE: 12-20-2013

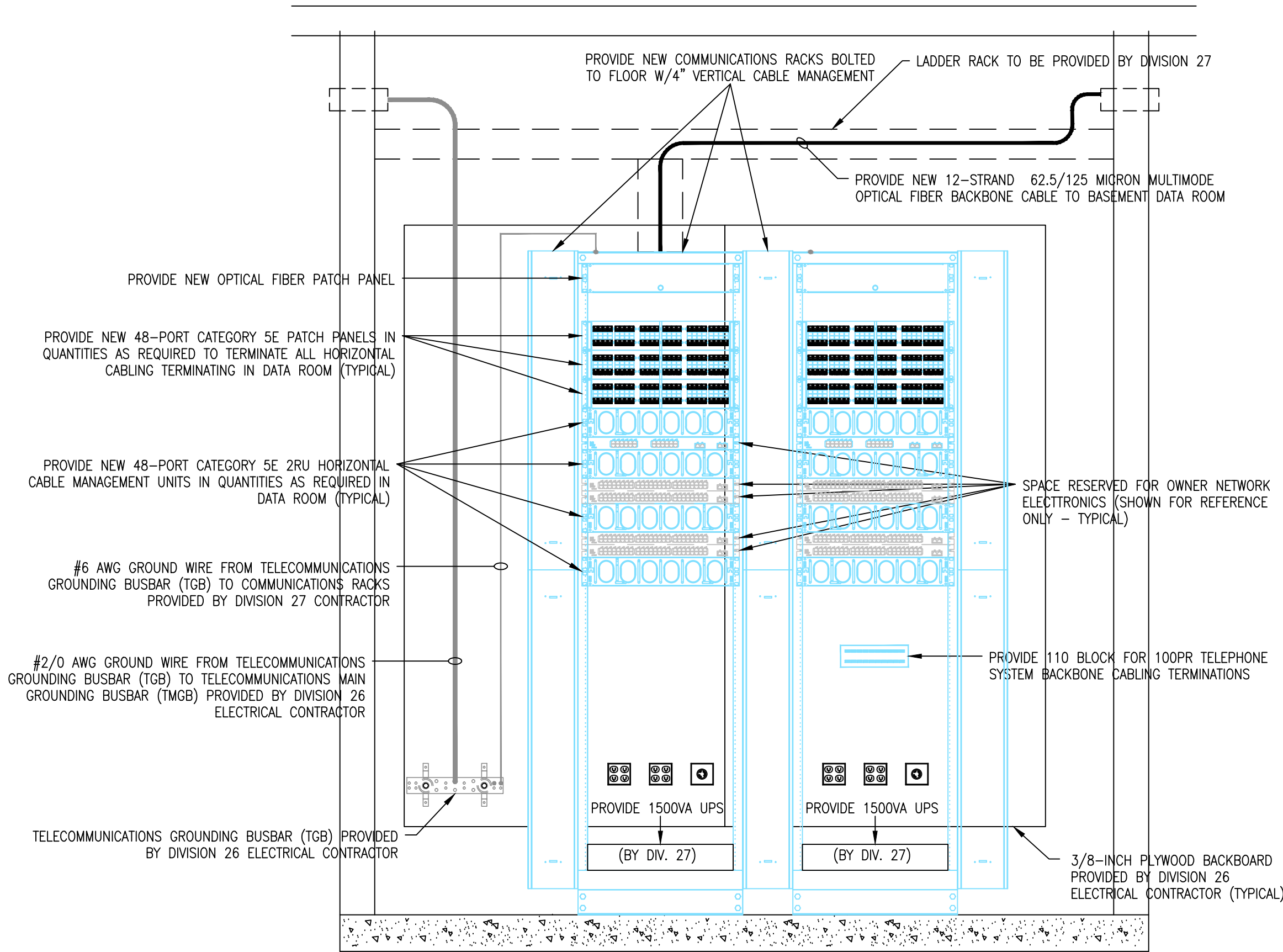
DRAWING TITLE
ELECTRICAL DETAILS
APPROVED: PROJECT DIRECTOR
DATE:

PROJECT TITLE
RECONFIGURE/EXPAND BUILDINGS 28 & 9
RESIDENTIAL REHABILITATION TREATMENT PROGRAM
BIDDING NO. 28
DESIGNED BY ARM
DRAWN CAB/DLJ
DATE FILE
DRAWING NO. E502

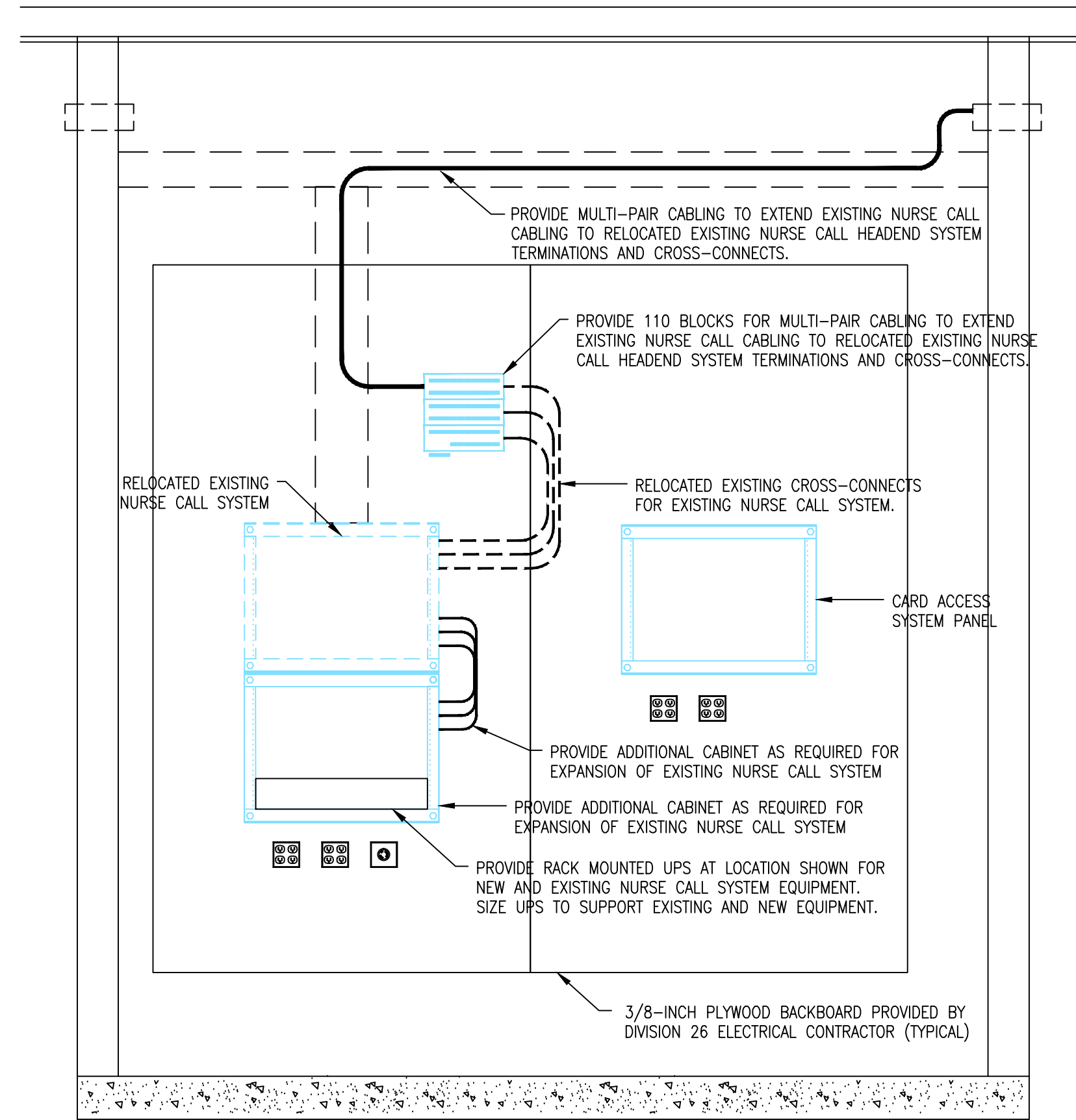
DATE 12-20-2013
REVISED AS NOTED
PROJECT NO. 656-12-339



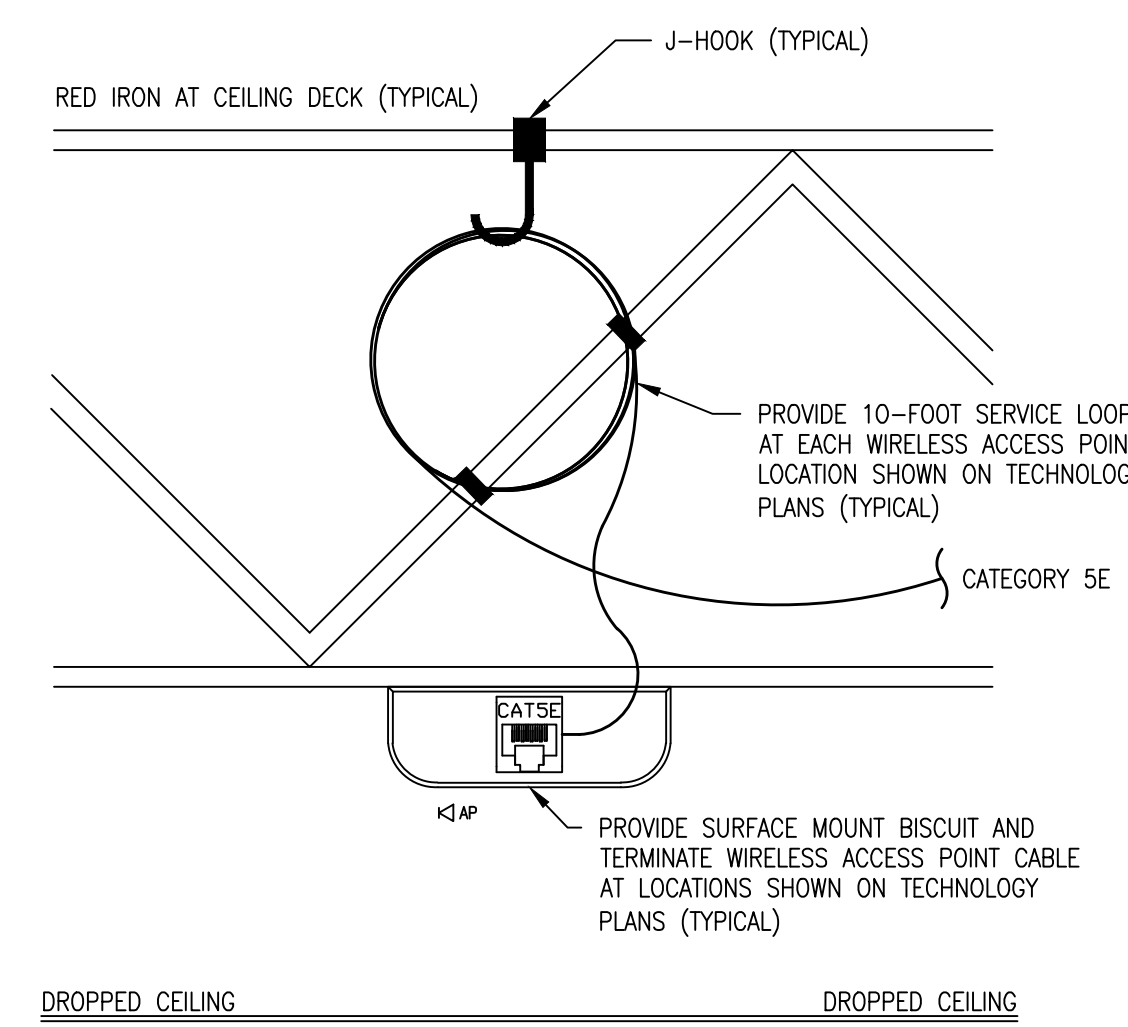
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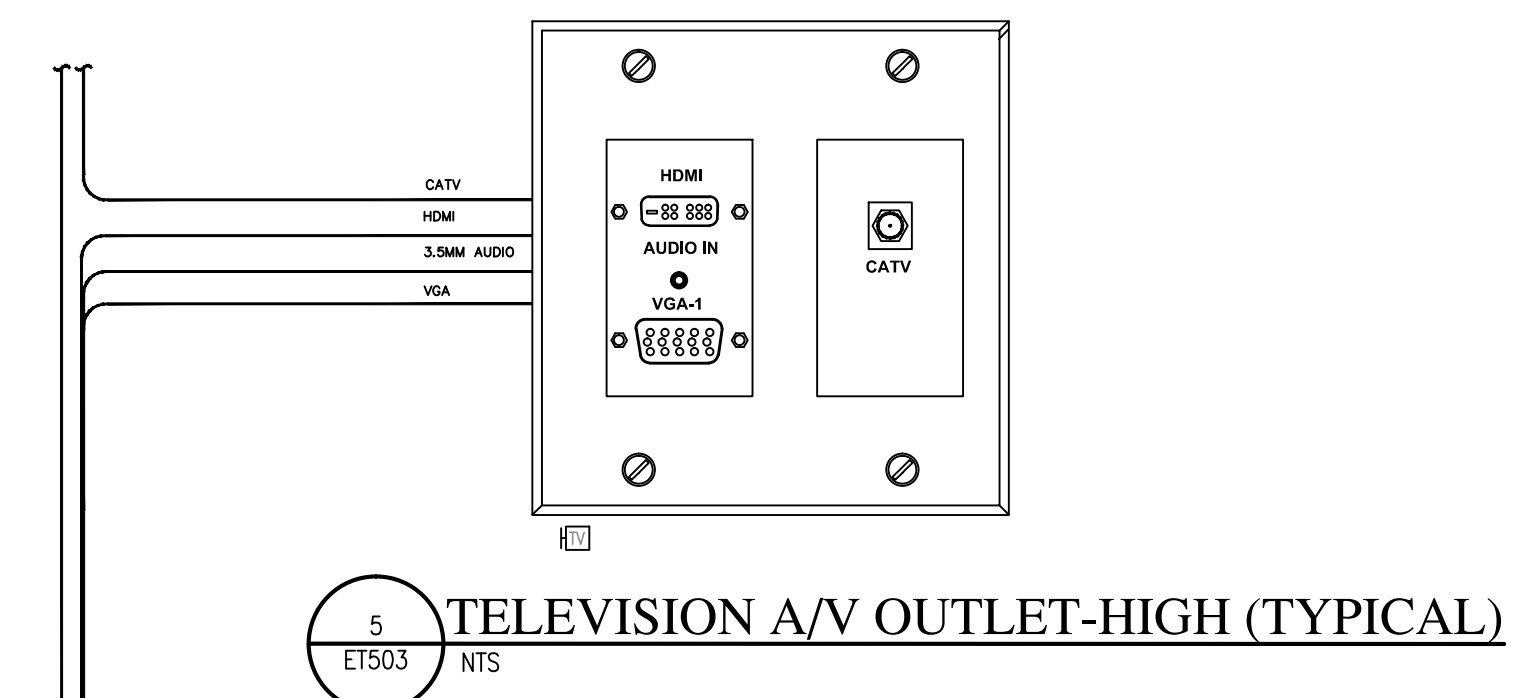
1 TELECOMMUNICATIONS ROOM EQUIPMENT ELEVATIONS



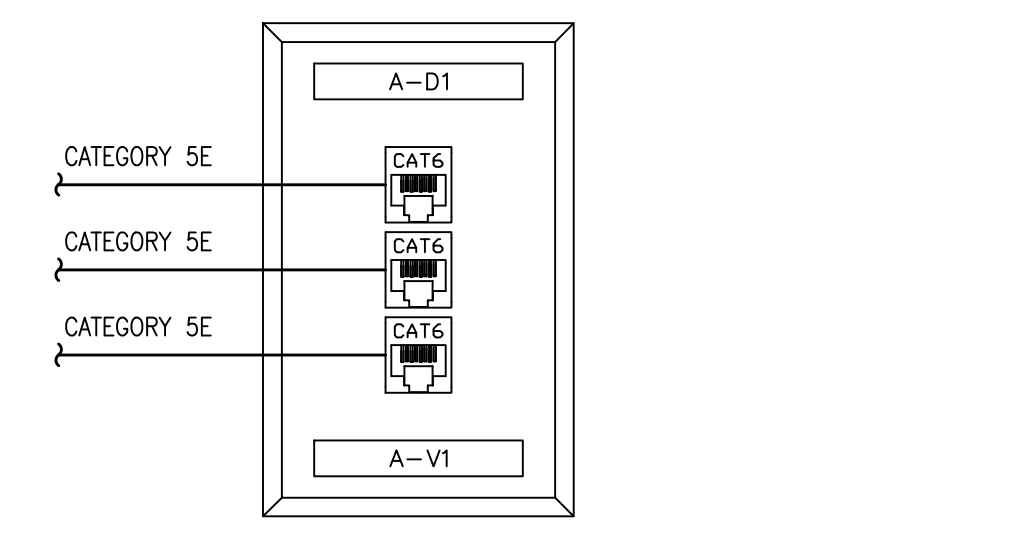
2 LOW VOLTAGE ROOM EQUIPMENT ELEVATIONS



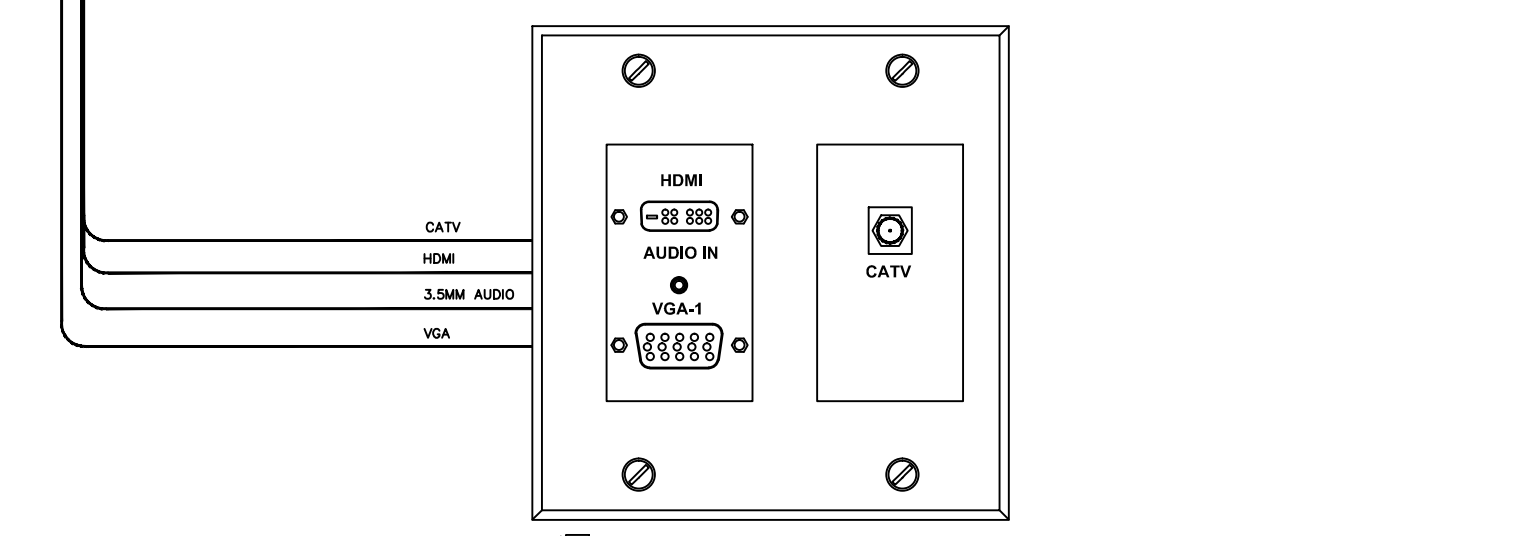
3 WIRELESS OUTLET DETAIL



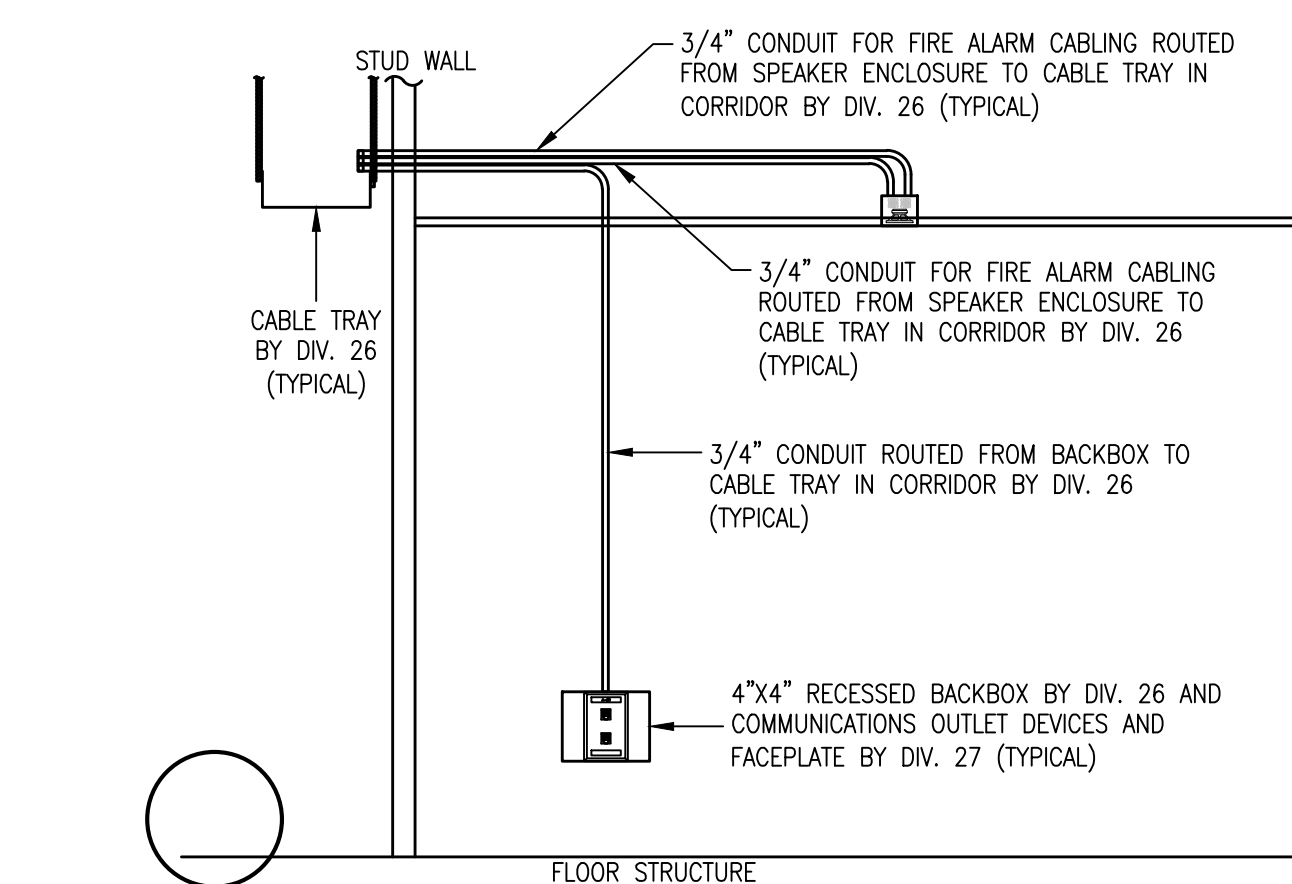
5 TELEVISION A/V OUTLET-HIGH (TYPICAL)



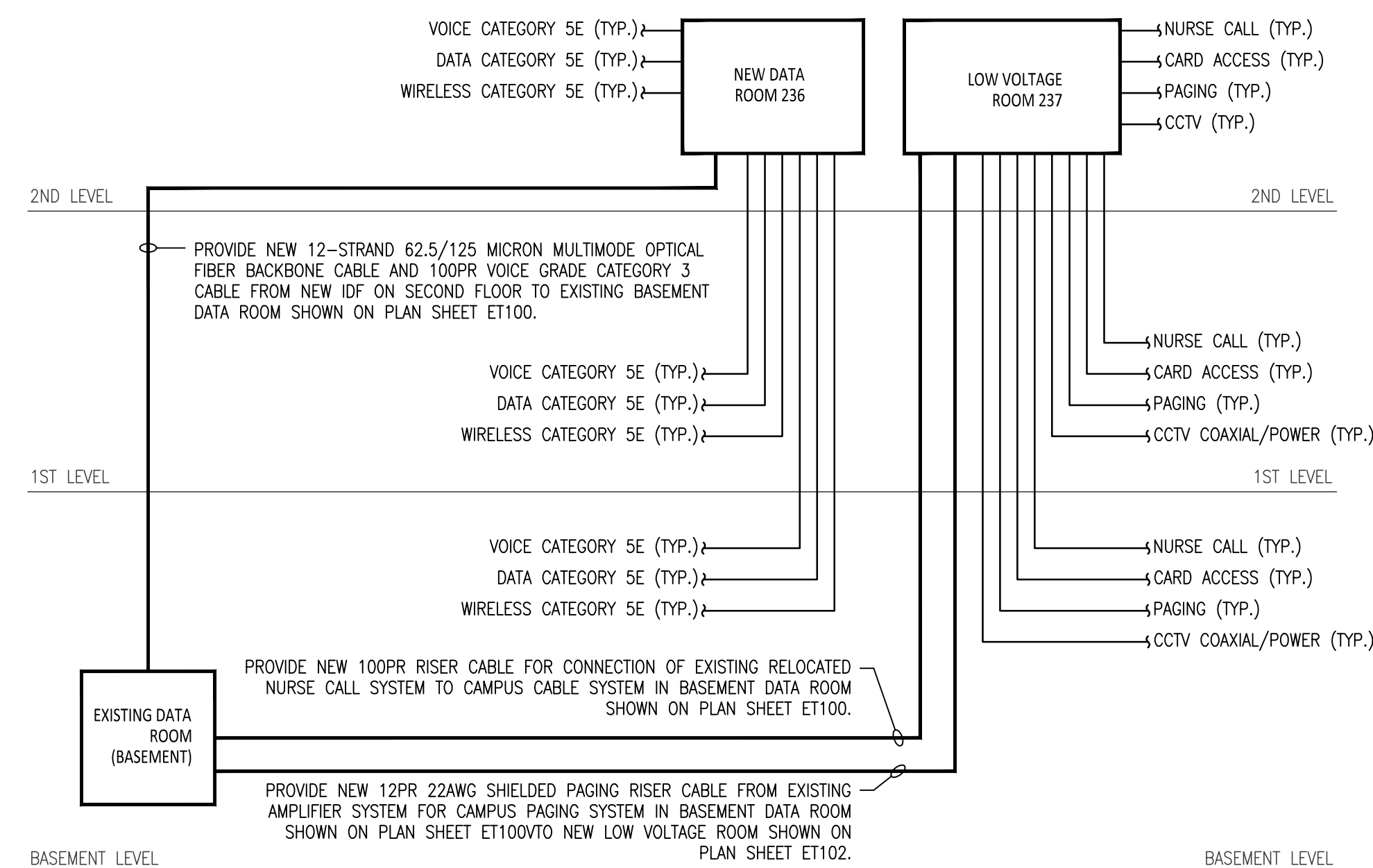
4 VOICE/DATA OUTLET (TYPICAL)



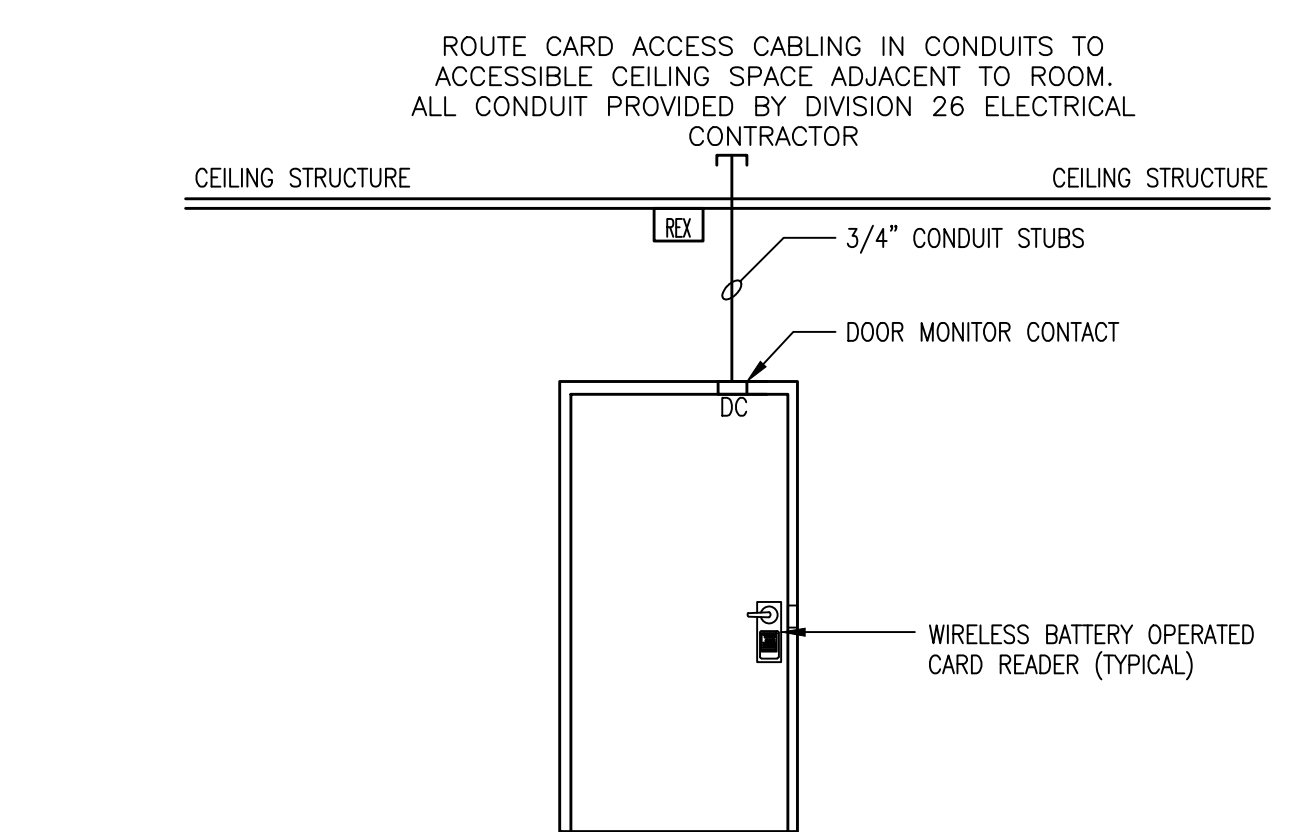
6 TELEVISION A/V OUTLET-LOW (TYPICAL)



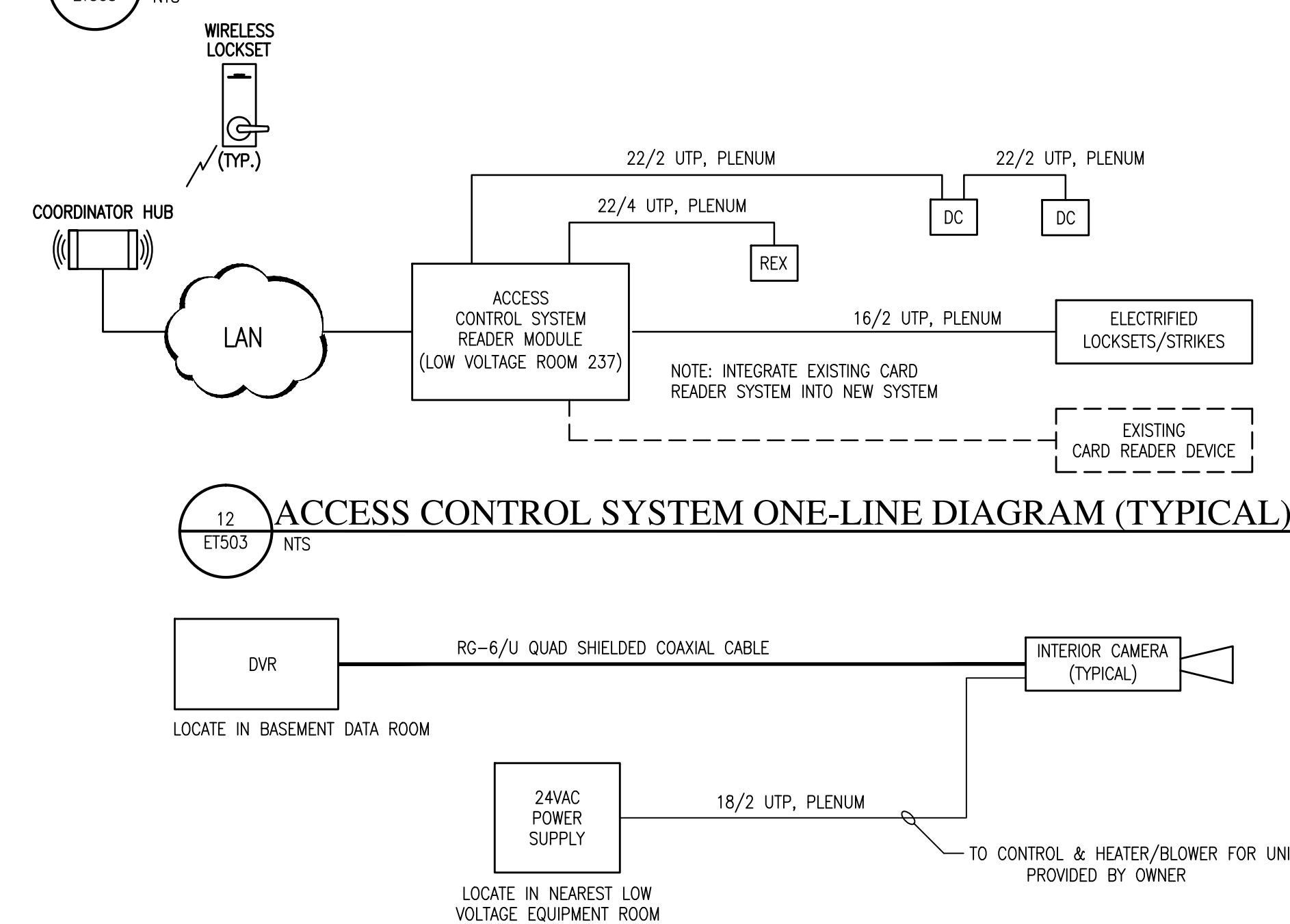
7 COMMUNICATIONS OUTLET ROUGH-IN DETAIL (TYPICAL)



8 COMMUNICATIONS BACKBONE CABLE RISER DIAGRAM

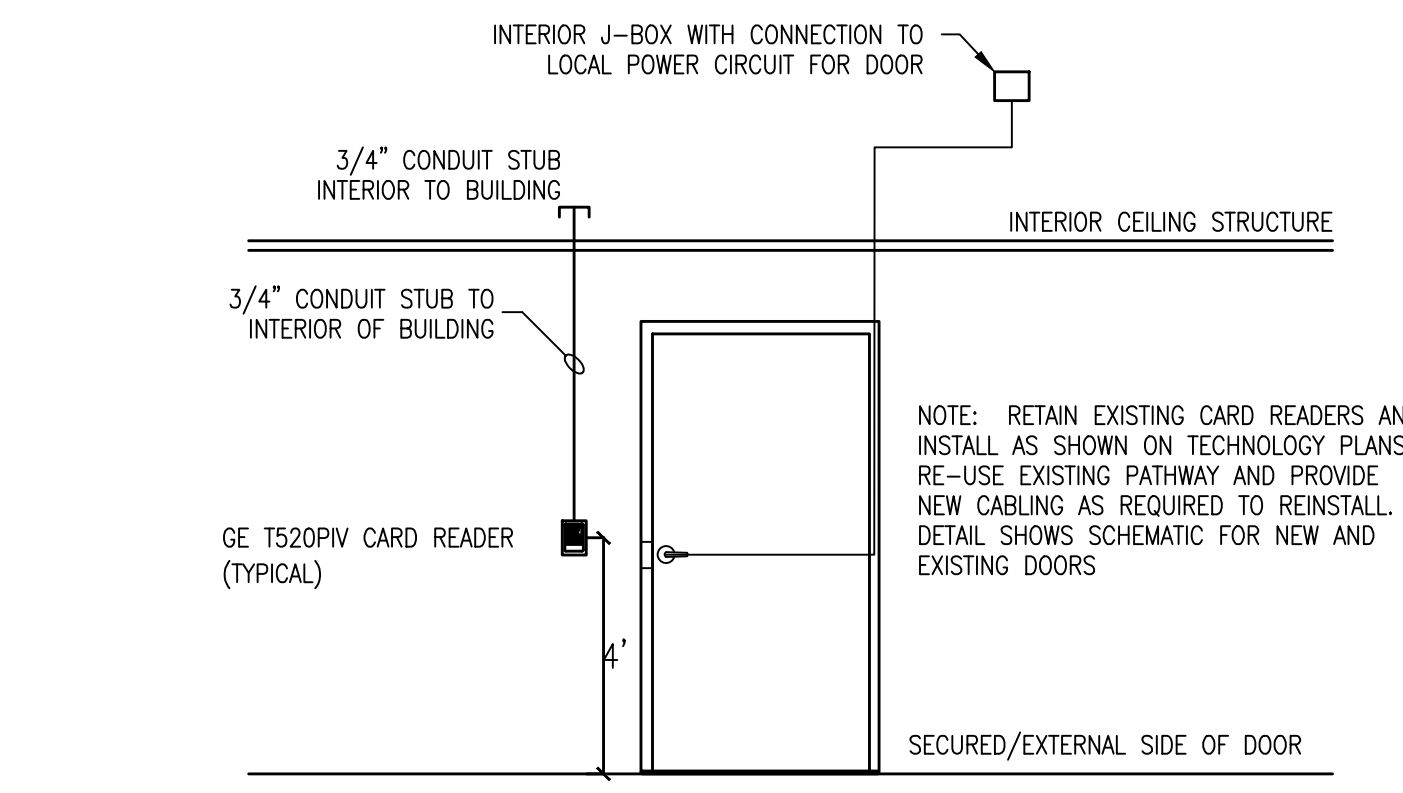


11 ACCESS CONTROL ELEVATION-PATIENT DOOR (TYPICAL)

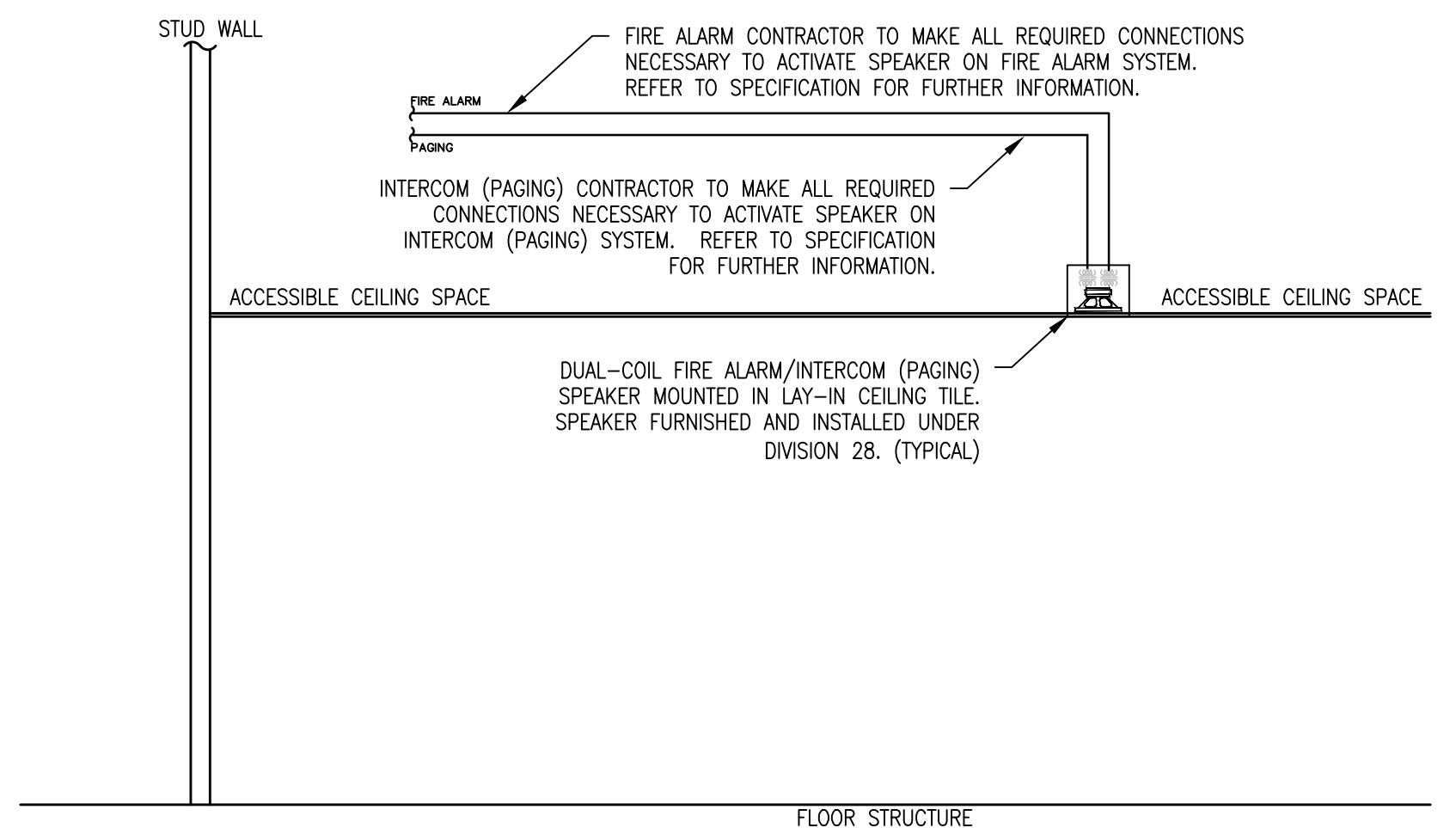


12 ACCESS CONTROL SYSTEM ONE-LINE DIAGRAM (TYPICAL)

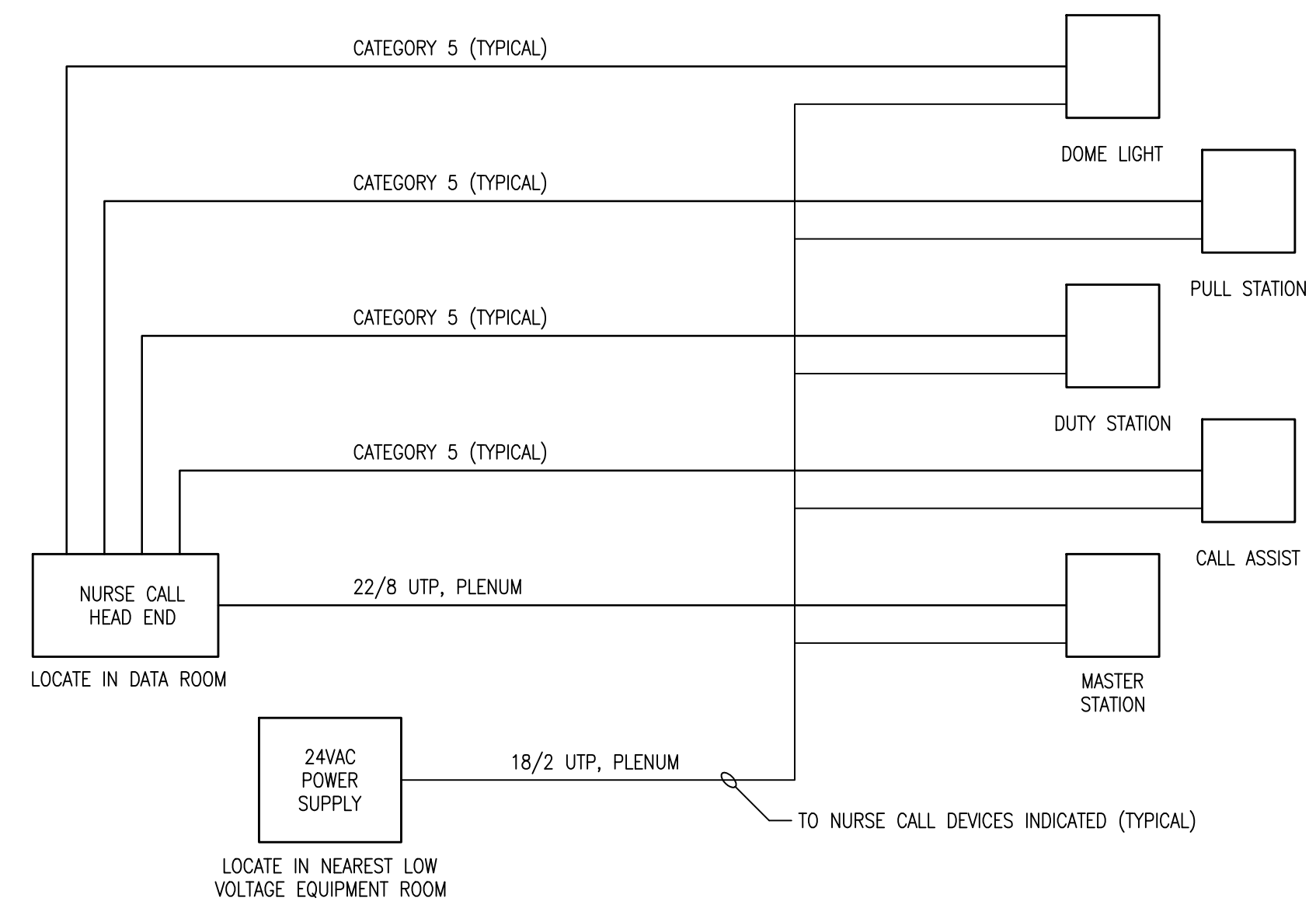
13 CCTV SURVEILLANCE SYSTEM ONE-LINE DIAGRAM (TYPICAL)



9 ACCESS CONTROL ELEVATION - (TYPICAL)



10 FIRE ALARM/INTERCOM (PAGING) SPEAKER DETAIL (TYPICAL)



14 NURSE CALL SYSTEM ONE-LINE DIAGRAM (TYPICAL)

100% CD SET

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

- GENERAL NOTES**

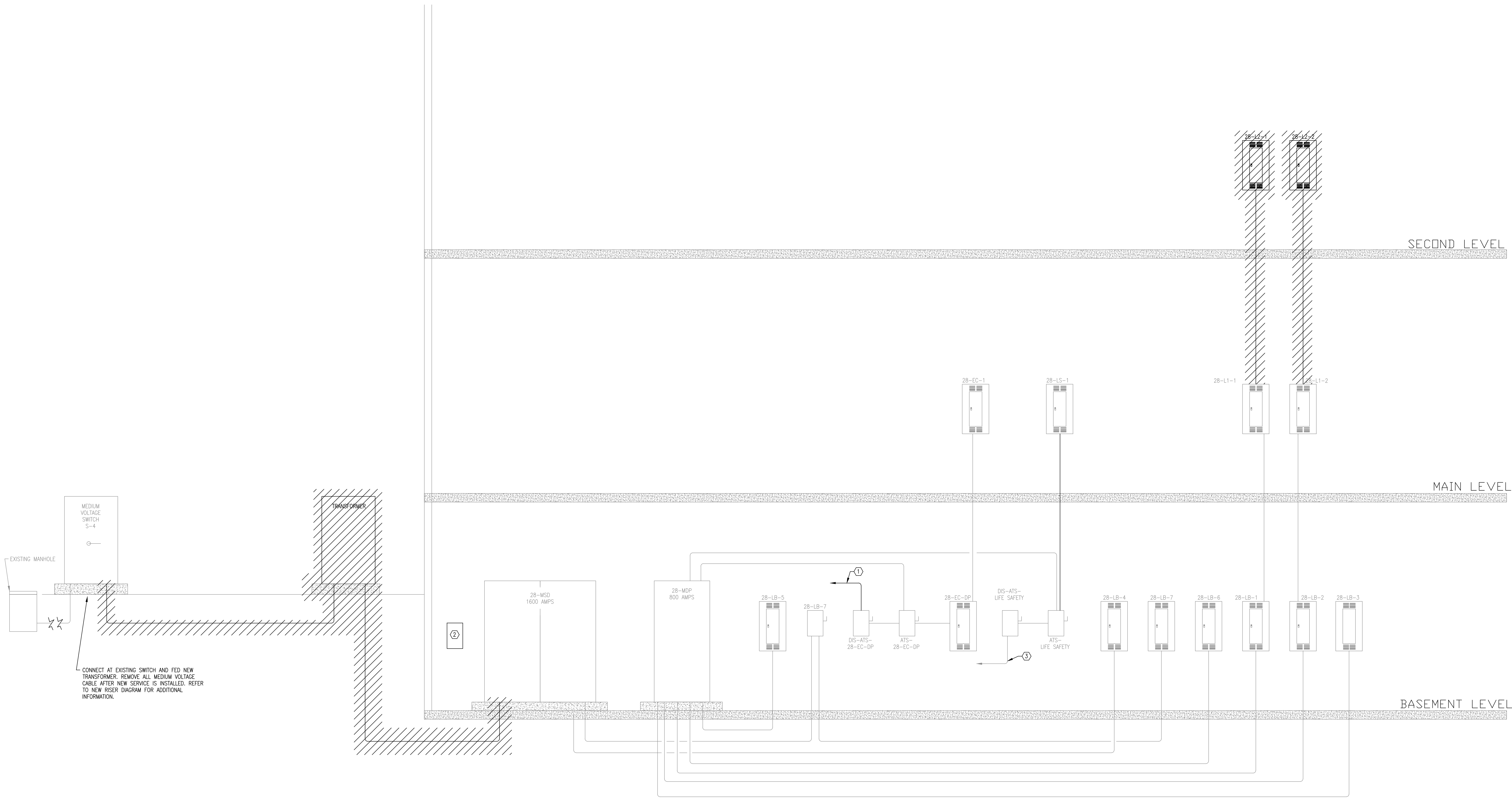
A. REFER TO PLANS FOR LOCATIONS

B. ALL LIGHT COLOR (SCREENED DEVICES SHOWN ARE EXISTING TO REMAIN. ALL DARK COLOR (BOLD DEVICES SHOWN ARE EXISTING TO BE DISCONNECTED AND REMOVED.
- RISER DIAGRAM NOTES**

① TO GENERATOR, FED FROM BUILDING. SHALL BE DISCONNECTED, REMOVED AND REFEED FROM NEW DISCONNECT. REFER TO NEW POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.

② SQUARE "D" POWER LOGIC #28-STC-28-E3A METER, RELOCATE TO NEW SWITCHBOARD. REFER TO NEW POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.

③ TO GENERATOR, FED FROM BUILDING. TO REMAIN AS IS. PROTECT DURING CONSTRUCTION.



1 POWER RISER DIAGRAM - DEMOLITION
E600 SCALE = NTS

100% CD SET

No		REVISION	DATE

 Design Tree ENGINEERING AND LAND SURVEYING		Alexandria Office 120 17th Avenue W. Alexandria, MN 56308 (320) 762-1290	St. Cloud Office 3339 West St. Germain, Suite 250 St. Cloud, MN 56301 (320) 217-5557
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 Alexandria 325 Broadway Street Alexandria, MN 56308 phone 320.759.9030 facsimile 320.759.9062 www.jlarchitects.com copyright © 2013		DATE 02/21/2011
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STAMP/SEAL HEREBY CERTIFY THAT THE SEAL SIGNATURE, OR EITHER HAS BEEN USED BY THE DESIGNER AS A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.  AARON E. MUELLER, PE REG. NO. 100483 DATE: 12-20-2013		DRAWING TITLE POWER RISER DIAGRAM - DEMOLITION
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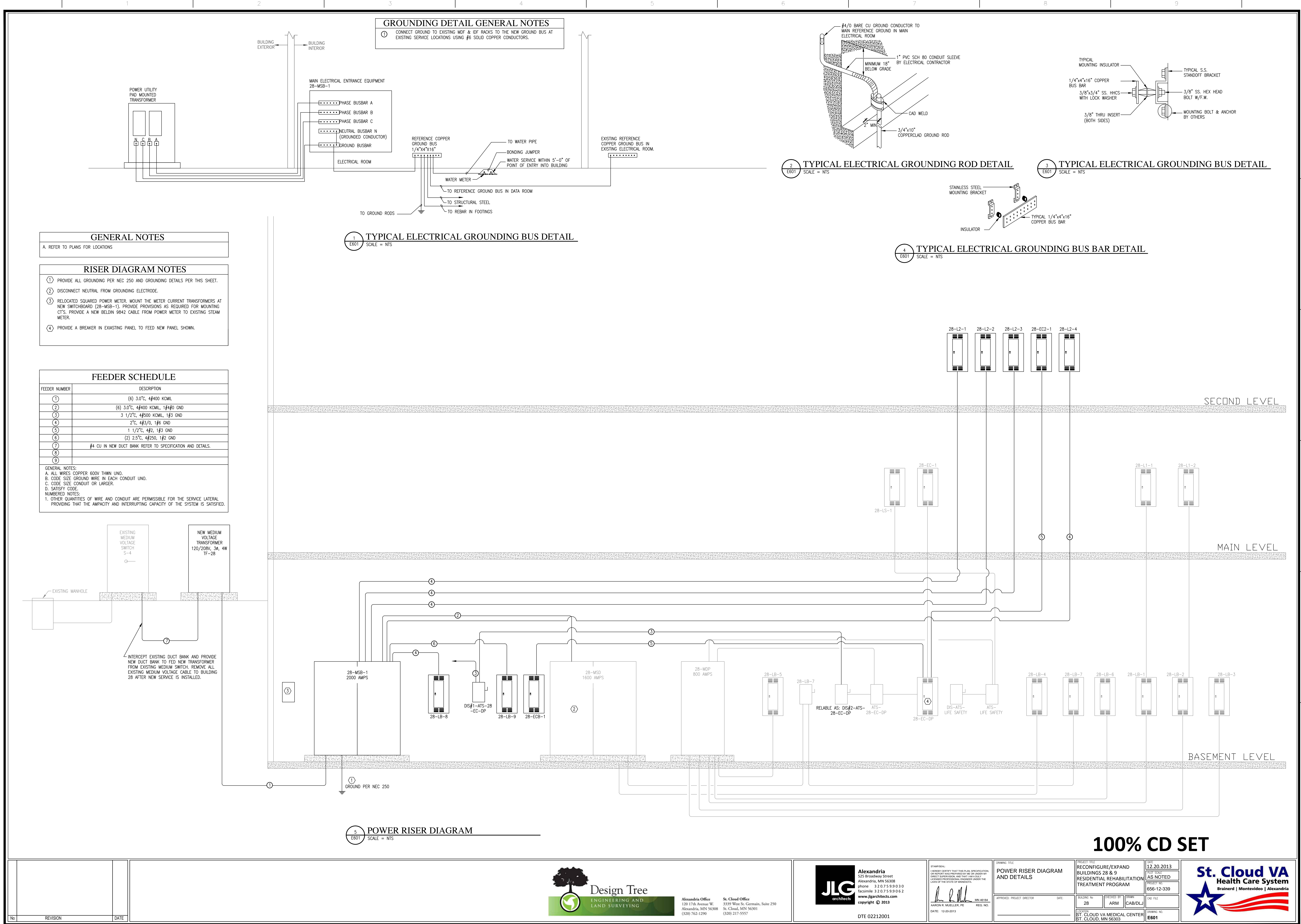
PROJECT TITLE RECONFIGURE/EXPAND BUILDINGS 28 & 9 RESIDENTIAL REHABILITATION TREATMENT PROGRAM		DATE 12-20-2013 REVISION AS NOTED PROJECT NO. 656-12-339
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BUILDING No. 28	DESIGNED BY ARM	DRAWN CAB/DLJ	DATE FILE
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LOCATION ST. CLOUD VA MEDICAL CENTER ST. CLOUD, MN 56303	DRAWING NO. E600
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 St. Cloud VA Health Care System Brainerd Montevideo Alexandria	
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three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
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BASE BID LIGHT FIXTURE SCHEDULE						
TYPE	FIXTURE TYPE	MOUNTING	LAMP TYPE	VOLTAGE/ BALLAST	FIXTURE DESCRIPTION	MANUFACTURER/ CATALOG SERIES
A	24" VOLUMETRIC TROFFER	RECESSED LAY-IN	4800 LUMENS	120 VOLT DRIVER 0 TO 10V DIMMING	ONE-PIECE COLD-ROLLED STEEL, COATED POLYESTER, PAINTED AFTER FABRICATION WITH EMBOSSED FACETS. IMPACT MODIFIED, SINGLE CLEAR DIFFUSER	LITHONIA ZYLED SERIES OR EQUAL
A1	24" VOLUMETRIC TROFFER	RECESSED LAY-IN	3600 LUMENS	120 VOLT DRIVER 0 TO 10V DIMMING	ONE-PIECE COLD-ROLLED STEEL, COATED POLYESTER, PAINTED AFTER FABRICATION WITH EMBOSSED FACETS. IMPACT MODIFIED, SINGLE CLEAR DIFFUSER	LITHONIA ZYLED SERIES OR EQUAL
B	24" VOLUMETRIC TROFFER	RECESSED LAY-IN	7200 LUMENS	120 VOLT DRIVER 0 TO 10V DIMMING	ONE-PIECE COLD-ROLLED STEEL, COATED POLYESTER, PAINTED AFTER FABRICATION WITH EMBOSSED FACETS. IMPACT MODIFIED, SINGLE CLEAR DIFFUSER	LITHONIA ZYLED SERIES OR EQUAL
B1	24" VOLUMETRIC TROFFER	RECESSED LAY-IN	7200 LUMENS	120 VOLT DRIVER 0 TO 10V DIMMING	ONE-PIECE COLD-ROLLED STEEL, COATED POLYESTER, PAINTED AFTER FABRICATION WITH EMBOSSED FACETS. IMPACT MODIFIED, SINGLE CLEAR DIFFUSER	LITHONIA ZYLED SERIES OR EQUAL
C	8" DOWNLIGHT	RECESSED	LED 1700L	120 VOLT	OPEN CLEAR	GOTMAN LIGHTING DVO SERIES OR EQUAL
D	2-0" VANITY	WALL	(2) 14W LINEAR TS	120 VOLT ELECTRONIC (1) 2 LAMP BALLAST	ETCHED ACRYLIC DIFFUSER WITH ENGRAVED GEOMETRIC DESIGN, CAST ALUMINUM ENDS	LIGHT CONCEPTS METRO ETCHED DIFFUSER VANITY SERIES OR EQUAL
E	EXIT SIGN	UNIVERSAL	LED	120 VOLT	DIE CAST, BRUSHED ALUMINUM FACE, BLACK HOUSING, RED LETTERS, FACES AND ARROWS AS SHOWN ON PLANS	LITHONIA LE SERIES OR EQUAL
F	PATIENT ROOM LED NIGHT LIGHT	RECESSED IN WALL	LED30	120 VOLT	FLAT WHITE, INTEGRATED PHOTO CELL	HEALTHCARE LIGHTING (ACUITY) PATHFINDER SERIES OR EQUAL
G	8" DOWNLIGHT DM	RECESSED	LED, 1700L	120 VOLT LUTRON DRIVER	OPEN CLEAR	GOTMAN LIGHTING DVO SERIES OR EQUAL
H	24" VOLUMETRIC TROFFER	RECESSED LAY-IN	4800 LUMENS	120 VOLT DRIVER 0 TO 10V DIMMING	ONE-PIECE COLD-ROLLED STEEL, COATED POLYESTER, PAINTED AFTER FABRICATION WITH EMBOSSED FACETS. IMPACT MODIFIED, SINGLE CLEAR DIFFUSER	LITHONIA ZYLED SERIES OR EQUAL
H1	24" VOLUMETRIC TROFFER	RECESSED LAY-IN	3600 LUMENS	120 VOLT DRIVER 0 TO 10V DIMMING	ONE-PIECE COLD-ROLLED STEEL, COATED POLYESTER, PAINTED AFTER FABRICATION WITH EMBOSSED FACETS. IMPACT MODIFIED, SINGLE CLEAR DIFFUSER	LITHONIA ZYLED SERIES OR EQUAL
K	2-0" UNDERCABINET	SURFACE	LED	120VOLT DRIVER	1-3/4" DEPTH, SPECIFICATION GRADE, WHITE PAINTED AFTER FABRICATION GOLD FRONT, 100% ACRYLIC LINEAR PRISMATIC, WITH HOOKER SWITCH	LIGHTTULER LLED SERIES OR EQUAL
L	4-0" INDUSTRIAL	CHANG HUNG	(2) F028 TS	120 VOLT ELECTRONIC (1) 2 LAMP BALLAST	WHITE REFLECTOR	LITHONIA LER SERIES OR EQUAL
AA	EXTERIOR WALL	WALL	LED (1) 21 LED LIGHTBAR (6000)	120V	TWO PIECE DIE CAST ALUMINUM HOUSING AND REMOVABLE HINGED DOOR FRAME TYPE 4 DET. BRONZE IN COLOR	COOPER BRY IMPACT ELITE SMALL WEDGE SERIES OR EQUAL
Notes: 1. REFER TO PLANS FOR MOUNTING, NUMBER OF HEADS AND ARROWS. 2. ALL LIGHT FIXTURES SHALL BE MADE IN AMERICA PER VA REQUIREMENTS, REFER TO SPECIFICATIONS.						

DEDUCT ALTERNATE NO. 9 LIGHT FIXTURE SCHEDULE						
TYPE	FIXTURE TYPE	MOUNTING	LAMP TYPE	VOL TAGE/ BALLAST	FIXTURE DESCRIPTION	MANUFACTURER/ CATALOG SERIES
A	24" INDIRECT FLUORESCENT	RECESSED LAY-IN	(2) F028 TS	120 VOLT ELECTRONIC (1) 2 LAMP INSTANT START BALLAST	SEALED OPTICAL COMPARTMENT, ACRYLIC DIFFUSER, BAKED WHITE POST PAINTED ACRYLIC ENAMEL	FOCAL POINT AKPOLLO 2 SERIES OR EQUAL
A1	24" INDIRECT FLUORESCENT	RECESSED LAY-IN	(3) F017 TS	120 VOLT ELECTRONIC (1) 3 LAMP INSTANT START BALLAST	SEALED OPTICAL COMPARTMENT, ACRYLIC DIFFUSER, BAKED WHITE POST PAINTED ACRYLIC ENAMEL	FOCAL POINT AKPOLLO 2 SERIES OR EQUAL
B	24" INDIRECT FLUORESCENT	RECESSED LAY-IN	(3) F028 TS	120 VOLT ELECTRONIC (1) 3 LAMP, STEP BALLAST 100% TO 50%	SEALED OPTICAL COMPARTMENT, ACRYLIC DIFFUSER, BAKED WHITE POST PAINTED ACRYLIC ENAMEL	FOCAL POINT AKPOLLO 2 SERIES OR EQUAL
B1	24" INDIRECT FLUORESCENT	RECESSED LAY-IN	(3) F028 TS	120 VOLT ELECTRONIC (1) 3 LAMP LUTRON DIMMING BALLAST	SEALED OPTICAL COMPARTMENT, ACRYLIC DIFFUSER, BAKED WHITE POST PAINTED ACRYLIC ENAMEL	FOCAL POINT AKPOLLO 2 SERIES OR EQUAL
C	8" DOWNLIGHT	RECESSED	LED 1700L	120 VOLT	OPEN CLEAR	GOTMAN LIGHTING DVO SERIES OR EQUAL
D	2-0" VANITY	WALL	(2) 14W LINEAR TS	120 VOLT ELECTRONIC (1) 2 LAMP BALLAST	ETCHED ACRYLIC DIFFUSER WITH ENGRAVED GEOMETRIC DESIGN, CAST ALUMINUM ENDS	LIGHT CONCEPTS METRO ETCHED DIFFUSER VANITY SERIES OR EQUAL
E	EXIT SIGN	UNIVERSAL	LED	120 VOLT	DIE CAST, BRUSHED ALUMINUM FACE, BLACK HOUSING, RED LETTERS, FACES AND ARROWS AS SHOWN ON PLANS	LITHONIA LE SERIES OR EQUAL
F	PATIENT ROOM LED NIGHT LIGHT	RECESSED IN WALL	LED30	120 VOLT	FLAT WHITE, INTEGRATED PHOTO CELL	HEALTHCARE LIGHTING (ACUITY) PATHFINDER SERIES OR EQUAL
G	8" DOWNLIGHT DM	RECESSED	LED, 1700L	120 VOLT LUTRON DRIVER	OPEN CLEAR	GOTMAN LIGHTING DVO SERIES OR EQUAL
H	24" FLUORESCENT	RECESSED	(2) F028 TS	120 VOLT ELECTRONIC (1) 2 LAMP INSTANT START BALLAST	WHITE POWDER PAINTED, #12 PATTERN ACRYLIC, .125 THICK	LITHONIA 8PN SERIES OR EQUAL
H1	24" FLUORESCENT	RECESSED	(3) F017 TS	120 VOLT ELECTRONIC (1) 3 LAMP INSTANT START BALLAST	WHITE POWDER PAINTED, #12 PATTERN ACRYLIC, .125 THICK	LITHONIA 8PN SERIES OR EQUAL
K	2-0" UNDERCABINET	SURFACE	LED	120 VOLT DRIVER	1-3/4" DEPTH, SPECIFICATION GRADE, WHITE PAINTED AFTER FABRICATION GOLD FRONT, 100% ACRYLIC LINEAR PRISMATIC, WITH HOOKER SWITCH	LITHONIA LLED SERIES OR EQUAL
L	4-0" INDUSTRIAL	CHANG HUNG	(2) F028 TS	120 VOLT ELECTRONIC (1) 2 LAMP BALLAST	WHITE REFLECTOR	LITHONIA LER SERIES OR EQUAL
AA	EXTERIOR WALL	WALL	LED (1) 21 LED LIGHTBAR (6000)	120V	TWO PIECE DIE CAST ALUMINUM HOUSING AND REMOVABLE HINGED DOOR FRAME TYPE 4 DET. BRONZE IN COLOR	COOPER BRY IMPACT ELITE SMALL WEDGE SERIES OR EQUAL
Notes: 1. REFER TO PLANS FOR MOUNTING, NUMBER OF HEADS AND ARROWS. 2. ALL LIGHT FIXTURES SHALL BE MADE IN AMERICA PER VA REQUIREMENTS, REFER TO SPECIFICATIONS.						

MOTOR AND EQUIPMENT SCHEDULE																		
EQUIPMENT NUMBER	LOCATION	MOTOR DATA							DISCONNECT		STARTER DATA		FED FROM		FEEDER SIZE	NOTES		
		HP	FLA	MCA	MCP	WHTTS	AMPS	KVA	VOLTPH	SIZE/POLE	FUSES	LOCATION	SIZE	LOCATION			PANEL	CIRCUIT
CONDENSING UNITS																		
CU-AM-4	EXTERIOR			128.5	150				208/3	30/3	PER MANUF	AT UNIT	BY MECH	AT UNIT	28-LB-9	18,25,32	1 1/2" C, 3/16", 1/8" GND	1
CU-AM-4	EXTERIOR BLD 9 LINK		21.1		35				208/1	30/3	PER MANUF	AT UNIT	BY MECH	AT UNIT	EXISTING SWITCHBOARD 8-MIS		3/4" C, 3/16", 1/16" GND	1.3
EXHAUST FANS																		
EF-1	ATTIC		.8						208/3	30/3	PER MANUF	AT UNIT	BY MECH	AT UNIT	28-LB-9	13,15,17	3/4" C, 3/16", 1/16" GND	
EF-2	ATTIC		.44						120/1	30/2	PER MANUF	AT UNIT	BY MECH	AT UNIT	28-LB-9	2	3/4" C, 3/16", 1/16" GND	
EF-3	ATTIC		.44						120/1	30/2	PER MANUF	AT UNIT	BY MECH	AT UNIT	28-LB-9	4	3/4" C, 3/16", 1/16" GND	
AIR HANDLING UNITS																		
AH-6 SUPPLY	ATTIC		37.4						208/3	80/3	PER MANUF	AT UNIT	BY MECH	AT UNIT	28-LB-9	1,3,5	1 1/2" C, 3/8", 1/8" GND	1.2
AH-6 RETURN	ATTIC		14						208/3	30/3	PER MANUF	AT UNIT	BY MECH	AT UNIT	28-LB-9	7,8,11	3/4" C, 3/16", 1/16" GND	1.2
AH-6	ABOVE CEILING IN BLD 9 LINK		1.12						208/3	30/3	PER MANUF	AT UNIT	BY MECH	AT UNIT	EXISTING SWITCHBOARD 8-MIS		3/4" C, 3/16", 1/16" GND	1.3,3
PUMPS																		
P-7	BASEMENT		15						208/3	100/3	PER MANUF	AT UNIT	BY MECH	AT UNIT	28-LB-9	6,8,10	1" C, 3/8", 1/16" GND	1
P-8	BASEMENT		15						208/3	100/3	PER MANUF	AT UNIT	BY MECH	AT UNIT	28-LB-9	12,14,16	1" C, 3/8", 1/16" GND	
P-8	BASEMENT IN BUILDING 9		1.6		15				120/1	MIS		AT UNIT	BY MECH	AT UNIT	EXISTING PANELBOARD 8L-82		3/4" C, 3/16", 1/16" GND	1.4
NOTES																		
1. PROVIDE DISCONNECT AND MAKE ALL REQUIRED CONNECTION FROM DISCONNECT TO STARTER PROVIDED BY MECHANICAL CONTRACTOR THEN TO MOTOR.																		
2. MAKE ALL REQUIRED CONNECTION DUCT/IMAKE DETECTOR FURNISHED BY MECHANICAL CONTRACTOR.																		
3. PROVIDE FUSES IN EXISTING 82.3 D SWITCHBOARD SPARE SWITCH.																		
4. PROVIDE A 15A-1P BREAKER IN EXISTING CHALLENGER PWA PANELBOARD SPACE. BREAKER TO MATCH EXISTING AC RATING.																		



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DTE 02212001

STAMPED:
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

[Signature] MN 48184
ANDREW R. MAELLER, PE REG. NO.
DATE: 12-20-2013

DRAWING TITLE
SCHEDULES

APPROVED: PROJECT DIRECTOR

PROJECT TITLE
RECONFIGURE/EXPAND BUILDINGS 28 & 9
RESIDENTIAL REHABILITATION TREATMENT PROGRAM

ISSUE NO.
28

DESIGNED BY
ARM

DRAWN BY
CAB/DLU

CHECKED BY
ST. CLOUD VA MEDICAL CENTER
ST. CLOUD, MN 56303

DATE
12.20.2013

PROJECT NO.
656-12-339

NO. FILE
E602



100% CD SET

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one and one half inches = one foot
one inch = one foot
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Panelboard Schedule												
Name Location Mounting	28-LB-8 ELECTRICAL SURFACE		Phase Wire Voltage	3 4 120/208		Main Bussing		200A MCB 225 AMP				
Description	Type	Load	Ckt Br	Ckt #	Ckt #	Ckt Br	Load	Type	Description			
ROOM 78	RC	400	201	1	2	201	400	RC	ROOM 78			
ROOM 78	RC	400	201	3	4	201	400	RC	ROOM 78			
ROOM 78	RC	400	201	5	6	201	400	RC	ROOM 78			
ROOM 78	RC	400	201	7	8	201	400	RC	ROOM 78			
ROOM 78	RC	400	201	9	10	201	400	RC	ROOM 78			
ROOM 78	RC	400	201	11	12	201	400	RC	ROOM 78			
ROOM 78	RC	400	201	13	14	201	400	RC	ROOM 78			
ROOM 78	RC	400	201	15	16	201	400	RC	ROOM 78			
ROOM 78	RC	400	201	17	18	201	540	RC	ROOM 78			
ROOM 78	RC	400	201	19	20	201	400	RC	ROOM 110			
EXTERIOR BY ROOM 78	RC	200	201	21	22	201			SPARE			
ROOMS 78 & 77	LT	1300	201	23	24	201			SPARE			
ROOM 78	LT	1000	201	25	26	201			SPARE			
ROOM 78	LT	1000	201	27	28	201			SPARE			
SPARE			201	29	30	201			SPARE			
SPARE			201	31	32	201			SPARE			
SPARE			201	33	34	201			SPARE			
SPARE			201	35	36	201			SPARE			
SPARE			201	37	38	201			SPARE			
SPARE			201	39	40	201			SPARE			
SPARE			201	41	42	201			SPARE			
SPARE			201	43	44	201			SPARE			
SPARE			201	45	46	201			SPARE			
SPARE			201	47	48	201			SPARE			
SPARE			201	49	50	201			SPARE			
SPARE			201	51	52	201			SPARE			
SPARE			201	53	54	201			SPARE			
SPARE			201	55	56	201			SPARE			
SPARE			201	57	58	201			SPARE			
SPARE			201	59	60	201			SPARE			
Notes												
1. CIRCUITS DELETED UNDER ALTERNATE SHALL BECOME SPARES 3/4/1P BREAKERS												

Panelboard Schedule												
Name Location Mounting	28-LB-9 ELECTRICAL SURFACE		Phase Wire Voltage	3 4 120/208	Main Bussing		500A MCB 600 AMP					
Description	Type	Load	Ckt Br	Ckt #	Ckt #	Ckt Br	Load	Type	Description			
AHL-5 SUPPLY	MT	4488	503	1	2	151	1176	MT	EF-2			
-	MT	4488	-	3	4	151	1176	MT	EF-3			
-	MT	4488	-	5	6	903	5544	MT	P-1			
AHL-5 RETURN	MT	1680	201	7	8	-	5544	MT	-			
-	MT	1680	-	9	10	-	5544	MT	-			
-	MT	1680	-	11	12	903	5544	MT	P-2			
EF-1	MT	480	153	13	14	-	5544	MT	-			
-	MT	480	-	15	16	-	5544	MT	-			
-	MT	480	-	17	18	1503	15540	MT	CL-AHL-5			
-	MT	480	-	19	20	-	15540	MT	-			
				21	22	-	15540	MT	-			
				23	24	201			-			
				25	26	201						
				27	28	201						
				29	30	201						
				31	32	201						
				33	34	201						
				35	36	201						
				37	38	201						
				39	40	201						
				41	42	201						
Notes												

Panelboard Schedule												
Name Location Mounting	28-LB-1 ELECTRICAL SURFACE		Phase Wire Voltage	3 4 120/208	Main Bussing		200A MCB 225 AMP					
Description	Type	Load	Ckt Br	Ckt #	Ckt #	Ckt Br	Load	Type	Description			
SPARE			201	1	2	201	1985	LT	ROOMS 237, 238, 239, 240, 241			
SPARE			201	3	4	201	1985	LT	ROOMS 242, 243, 244, 245, 247, 249, 251			
SPARE			201	5	6	201	1750	LT	ROOMS 239, 240, 252, 253, 254, 255, 256, 258, 259			
SPARE			201	7	8	201	1750	LT	ROOMS 261, 262, 263, 264, 265, 267, 269, 270, 271			
SPARE			201	9	10	201	1750	LT	ROOMS 213, 212, 211, 210, 209, 307, 306, 205, 204			
SPARE			201	11	12	201	1450	LT	ROOMS 220, 219, 218, 216, 215, 214, 211			
SPARE			201	13	14	201	1450	LT	ROOMS 232, 226, 225, 224, 223, 222			
SPARE			201	15	16	201	1000	LT	ROOMS 237, 238, 236, 235, 237, 236, 233			
SPARE			201	17	18	201	1000	LT	ROOMS CORRIDOR, 234			
SPARE			201	19	20	201	1550	LT	ROOMS 266, 248			
SPARE			201	21	22	201	1275	LT	ROOMS CORRIDOR, 229, 267			
SPARE			201	23	24	201	1550	LT	ROOMS 217, 211			
SPARE				25	26				SPACE			
SPARE				27	28				SPACE			
SPARE				29	30				SPACE			
SPARE				31	32				SPACE			
SPARE				33	34				SPACE			
SPARE				35	36				SPACE			
SPARE				37	38				SPACE			
SPARE				39	40				SPACE			
SPARE				41	42				SPACE			
Notes												

Panelboard Schedule												
Name Location Mounting	28-LB-2 ELECTRICAL SURFACE		Phase Wire Voltage	3 4 120/208	Main Bussing		200A MCB 225 AMP					
Description	Type	Load	Ckt Br	Ckt #	Ckt #	Ckt Br	Load	Type	Description			
ROOMS 238, 239	RC	1400	201	1	2	201	800	RC	ROOM 240			
ROOMS 238 RESTROOM	RC	200	201	3	4	201	200	RC	ROOM 240 RESTROOM			
ROOMS 240 RESTROOM	RC	200	201	5	6	201	1400	RC	ROOM 241			
ROOMS 240, 241	RC	1400	201	7	8	201	200	RC	ROOM 241 RESTROOM			
ROOM 240 RESTROOM	RC	200	201	9	10	201	1400	RC	ROOM 242			
ROOM 241 RESTROOM	RC	200	201	11	12	201	200	RC	ROOM 242 RESTROOM			
ROOM 244	RC	1200	201	13	14	201	1800	RC	ROOM 243			
ROOM 244 RESTROOM	RC	200	201	15	16	201	200	RC	ROOM 243 RESTROOM			
ROOM 245	RC	1400	201	17	18	201	1600	RC	ROOM 247			
ROOM 245 RESTROOM	RC	200	201	19	20	201	200	RC	ROOM 247 RESTROOM			
ROOM 247	RC	1400	201	21	22	201	200	RC	ROOM 233			
ROOM 247 RESTROOM	RC	200	201	23	24	201	200	RC	ROOM 233			
ROOM 249	RC	1200	201	25	26	201	200	RC	ROOM 233			
ROOM 251	RC	1400	201	27	28	201	200	RC	ROOM 233			
ROOM 251 RESTROOM	RC	200	201	29	30	201	400	RC	ROOM 233 TV'S			
ROOM 256	RC	1400	201	31	32	201	600	RC	ROOM 242 CORRIDOR			
256 RESTROOM	RC	200	201	33	34	201	800	RC	ROOM 248			
ROOM 254	RC	1400	201	35	36	201	400	RC	ROOM 248			
ROOM 258 RESTROOM	RC	200	201	37	38	201	400	RC	ROOM 248			
ROOM 259	RC	1200	201	39	40	201	400	RC	ROOM 248			
ROOM 259 RESTROOM	RC	200	201	41	42	201	400	RC	ROOM 248			
ROOM CORRIDOR, 252, 253	RC	1000	201	43	44	201	200	RC	ROOM 250			
ROOM 254, 255	RC	400	201	45	46	201	200	RC	ROOM 250			
ROOM 255 WASHER	MI	1200	201	47	48	201	200	RC	ROOM 250			
ROOM 251 DRYER	MI	1500	302	49	50	201	800	RC	ROOM 201			
ROOM 254	MI	1500	-	51	52	201	400	RC	ROOM 201			
ROOM 254	RC	200	201	53	54	201	400	RC	SPARE			
ROOMS 235, 325 CORRIDOR	RC	800	201	55	56	201	400	RC	SPARE			
DATA ROOM	RC	400	201	57	58	201	400	RC	SPARE			
SPARE	SP	200	201	59	60	201	400	RC	SPARE			
Notes												